Service Manual

ORDER NO.
RRV2458

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D850S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-D850S		
KUXJI/CA	◯	AC120V	

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
VSX-D810S/KUXJI	RRV2431	

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T – ZZK MAY 2001 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*
● *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 → 56 x 10^1 → 561 ····· RD1/4PU 5 6 1 J
47k → 47 x 10^3 → 473 ····· RD1/4PU 4 7 3 J
0.5 → R50 ····· RN2H R 5 0 K
1 → 1R0 ····· RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k → 562 x 10^1 → 5621 ····· RN1/4PC 5 6 2 1 F

■ CONTRAST TABLE

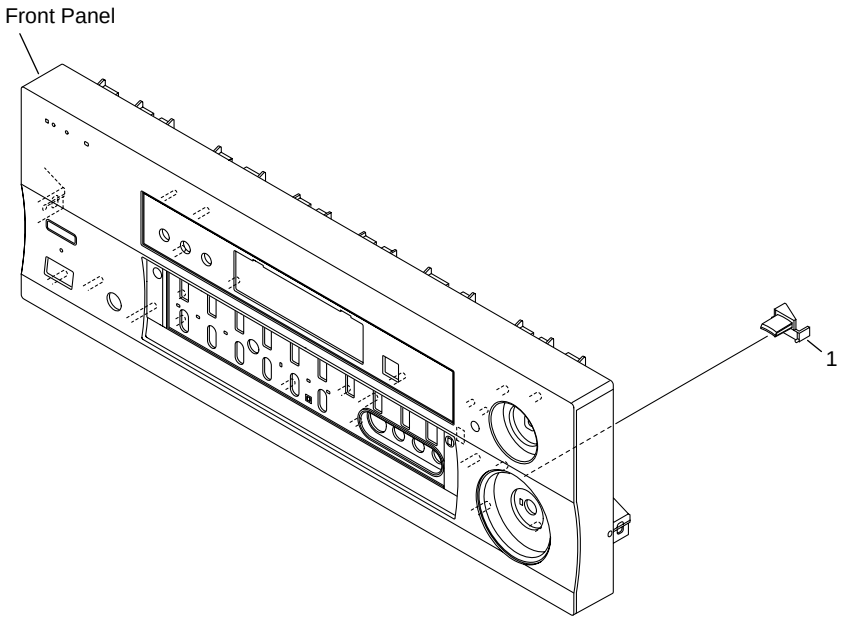
VSX-D850S/KUXJI/CA and VSX-D810S/KUXJI are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-D810S /KUXJI	VSX-D850S /KUXJI/CA	
		PCB ASSEMBLIES			
		D.D & INPUT ASSY	XWK3027	XWK3029	
P5- 1		├ D.D UCOM ASSY	XWZ3397	XWZ3399	
P5-53		└ D.D DSP ASSY	XWZ3395	XWZ3396	
	NSP	AMP&PS ASSY	XWK3023	XWK3026	
P5- 2		└ AMP&PRIMARY ASSY	XWZ3380	XWZ3383	
	NSP	COMPLEX ASSY	XWK3010	XWK3014	
P5- 6		├ VIDEO&6CH IN ASSY	XWZ3335	XWZ3400	
P5- 7		├ 6CH IN ASSY	XWZ3350	XWZ3351	
P5- 8		├ S. VISEO ASSY	XWZ3363	XWZ3364	
P5- 9		├ COMPONENT ASSY	XWZ3366	XWZ3367	
P6- 1		├ FRONT ASSY	XWZ3345	XWZ3349	
P6- 3		└ R. ENCODER ASSY	XWZ3354	XWZ3355	
		PACKING SECTION			
P3- 4	NSP	Dry Cell Battery (R6P, AA)	VEM-013	Not used	
P3- 4	NSP	Alkaline Dry Cell Battery (LR6, AA)	Not used	VEM1021	
P3- 6		Operating Instructions (French)	Not used	XRC3030	
P3- 7		Remote Control Unit	XXD3028	XXD3031	
P3-13		Packing Case	XHD3147	XHD3148	
		EXTERIOR SECTION			
P5-37		Foot Assy	REC1263	Not used	
P5-37		Insulator	Not used	PNW2766	
P5-39		Rear Panel	XNC3077	XNC3078	
		FRONT PANEL SECTION			
P6-18		Display Panel	XAK3172	XAK3216	
P6-19		Button Cover	XAK3253	XAK3224	
P6-21		Front Panel	XMB3033	XMB3034	
		B Lens R4	Not used	XAK3181	No. 1

Notes : ●The numbers in the remarks column correspond to the numbers on the " EXPLODED VIEWS ".
● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES" and "2. SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS

● FRONT PANEL SECTION



■ CONTRAST OF PCB ASSEMBLIES

A F D.D UCOM ASSY

XWZ3399 and XWZ3397 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3397	XWZ3399	
	R153, R154, R159, R160	RS1/16S102J	RS1/16S911J	
	R165, R208	RS1/16S182J	RS1/16S162J	
	R189, R190, R197, R198	RS1/16S242J	RS1/16S222J	
	JA101–JA104 (4P PIN JACK)	AKB7048	AKB7108	

B F D.D DSP ASSY

XWZ3396 and XWZ3395 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3395	XWZ3396	
	C9165	Not used	CKSRYF104Z25	
	R9156	RS1/16S0R0J	RS1/16S104J	
	R9171	Not used	RS1/16S101J	
	JA9151 (1P PIN JACK)	VKB1077	VKB1074	
	JA9154 (OPTICAL LINK IN)	Not used	GP1FA551RZ	

C F AMP&PRIMARY ASSY

XWZ3383 and XWZ3380 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3380	XWZ3383	
	C701, C702 (4700µF/71V)	ACH7137	Not used	
	C701, C702 (5600µF/71V)	Not used	XCH3005	

MF COMPONENT ASSY

XWZ3367 and XWZ3366 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3366	XWZ3367	
	1575 (6P PINJACK)	AKB7089	AKB7088	
	JA551 (6P RCA PINJACK)	AKB7128	AKB7127	
	JA553 (3P RCA PINJACK)	AKB7124	XKB3015	

NF FRONT ASSY

XWZ3349 and XWZ3345 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3345	XWZ3349	
	R428	Not used	RS1/16S472J	
	R429	RS1/16S0R0J	RS1/16S622J	

OF R.ENCODER ASSY

XWZ3355 and XWZ3354 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3354	XWZ3355	
	D511	Not used	UDZS5.6B	
	D512	Not used	E1L4E-7B1A(2345)	
	R512	Not used	RS1/16S391J	
	512 (LED HOLDER)	Not used	XAK3154	

QF VIDEO&6CH IN ASSY

XWZ3400 and XWZ3335 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3335	XWZ3400	
	CN305 (6P PINJACK)	AKB7123	XKB3014	

SF 6CH IN ASSY

XWZ3351 and XWZ3350 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3350	XWZ3351	
	308 (6P PINJACK)	AKB7089	AKB7088	

TF S. VIDEO ASSY

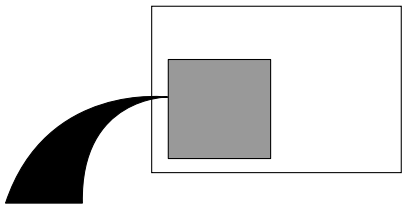
XWZ3364 and XWZ3363 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3363	XWZ3364	
	CN352/JA352 (3-4P MINI DIN SOCKET)	XKP3045	AKP7049	
	CN353 (2-4P MINI DIN SOCKET)	XKP3044	AKP7023	

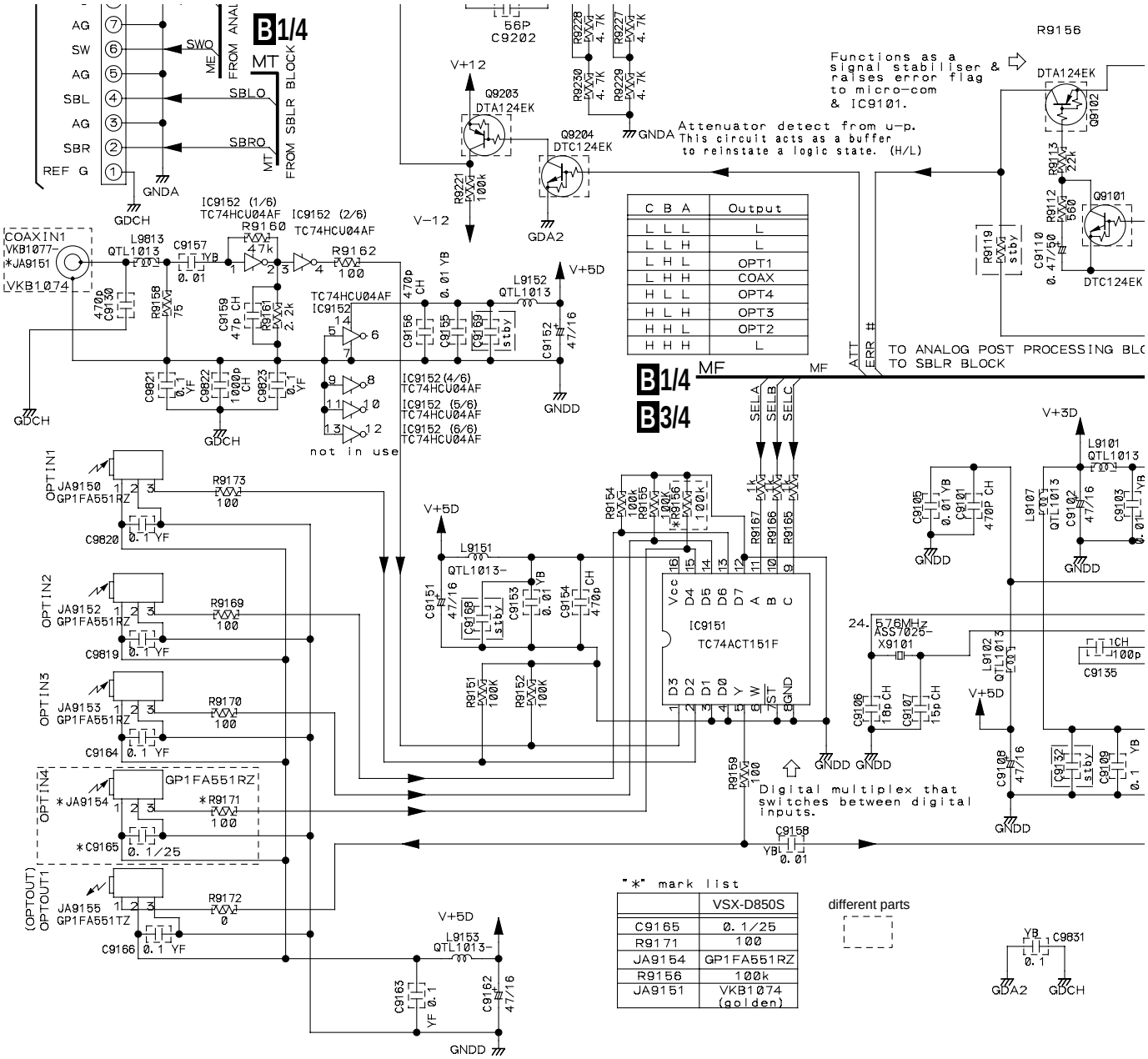
2. SCHEMATIC DIAGRAM

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

2.1 D.D DSP ASSY (2/4)

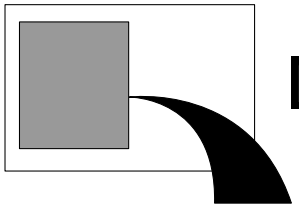


B 2/4 F D.D DSP ASSY (XWZ3396)



	VSX-D850S
C9165	0.1/25
R9171	100
JA9154	GP1FA551RZ
R9156	100k
JA9151	VKB1074 (golden)

2.2 FRONT and R. ENCODER ASSYS



NF FRONT ASSY
(XWZ3349)

different parts

S511 TONE
R512 390
LED HOLDER :XAK3154
UDZS5.6B
D511
E1L4E-7B (123)
D512
S512 XSX3006
S513 XSX3005
GNDS
AC RY
TONE
FENC B
FENC A
ST GND
VENC A
VENC B
511 51063-0705
404 51063-0705
J42 D15A07-075-2651

R.ENCODER ASSY
S511 : TONE
S512 : MULTI JOG DIAL
S513 : MASTER VOLUME

OF R.ENCODER ASSY
(XWZ3355)

CN401 52044-1345
PREG
9275ST
59ST
MRST
MCS2
MRDY
MCS1
MSI
MSO
MCK
V1
V2
V3
MT
A1/2 CN103

CN402 52044-3145
HP RY
SP B RY
R/C RY
SP A RY
FL AC1
FL AC2
-VF
AC RY
AC WP
UG
U+5V
TGND
TPOWON
PLL DO
PLL CE
TUNED
STEREO
T. MUTE
FM COMP
SROUT
V-FL
V5V
GNDT
GST
A1/2 CN102

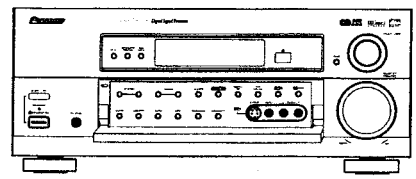
GP1U28X
Vout
Vcc
GND
VAMUTE
VREM
DAP202K
Q442 DTA124EK
Q441 DTC143EK
Q401 DTA124EK
Q402 DTA124EK
D442 1SS355
D407 1SS355

different parts
VERSION SWITCH
VERSION 1
VERSION 2

ACIN
RDS_DT
RDS_CK
OVFB
RMC
PLL CE
CDCCS
CDCCK
CDCDO
CDCDI
STEREO
TUNED
VENC A
VENC B
AMUTE
CSB
CS
SCK
SI
SO
MVR ATT
ST EVR
PLL DO
AVREF
KEYIN1
KEYIN2
KEYIN3
FENC A
FENC B
AMP DC
AMP OL
AVSS
RST

Service Manual

Pioneer



ORDER NO.
RRV2446

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D810S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-D810S		
MYXJIEW	○	AC220-230V	
MYXJIGR	○	AC220-230V	
MVXJI	○	AC230V	

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T – ZZK APR. 2001 Printed in Belgium

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

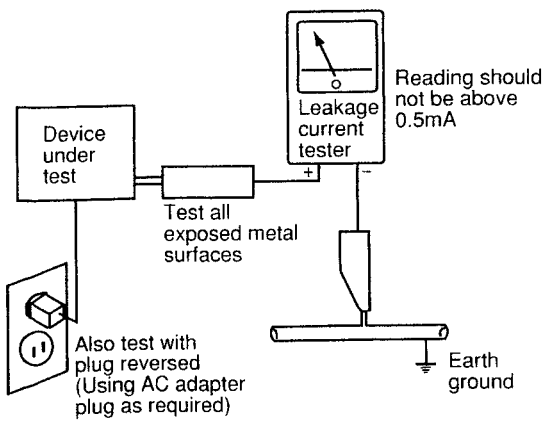
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

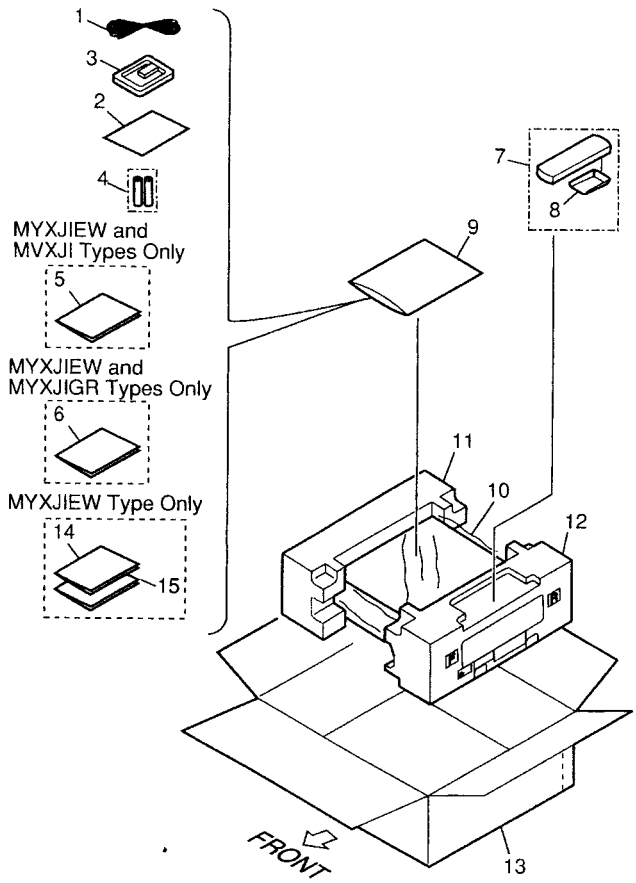
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

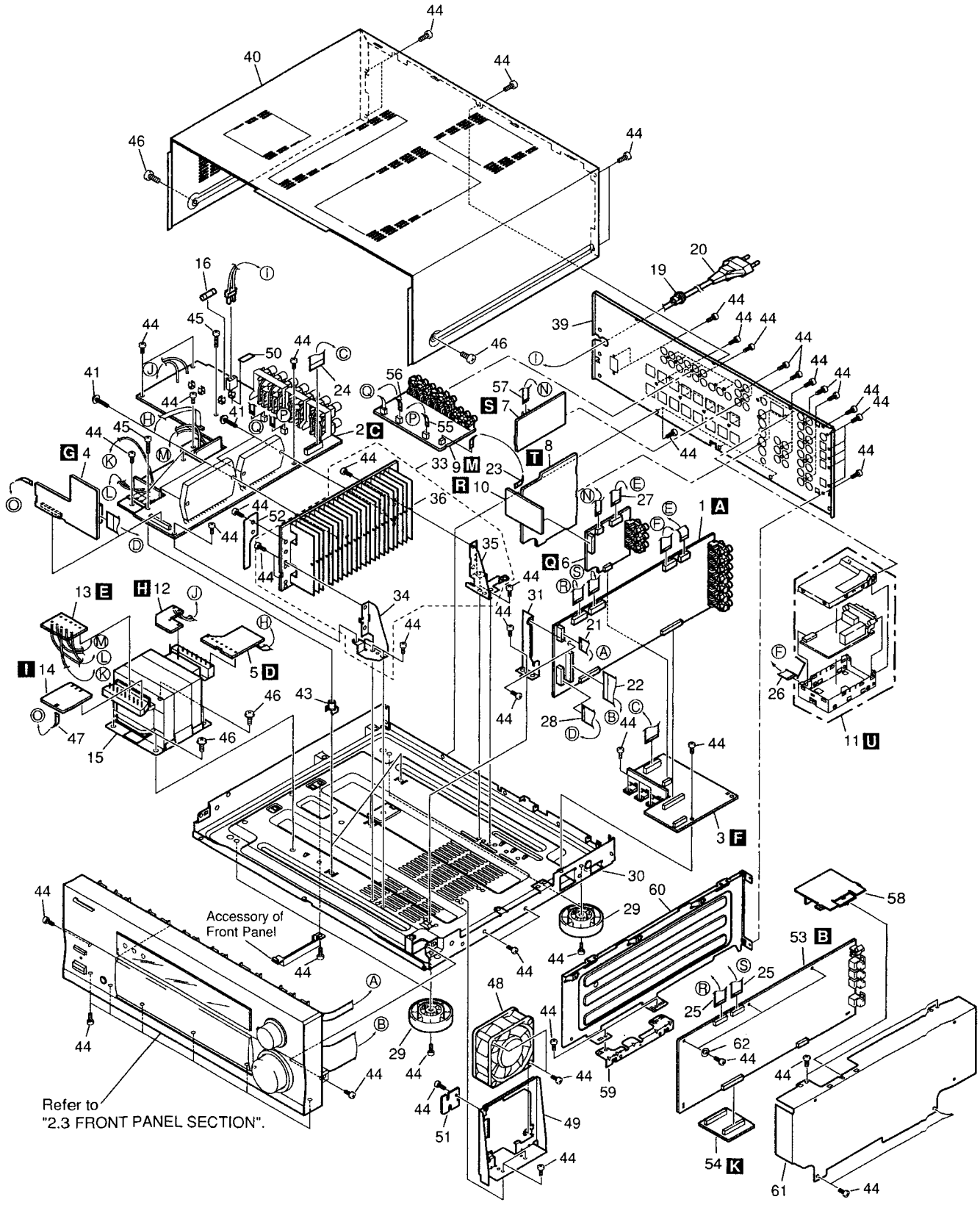
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7005
NSP	2	Warranty Card	ARY7022
	3	AM Loop Antenna	ATB7009
NSP	4	Dry Cell Battery (R6P, AA)	VEM-013
	5	Operating Instructions (English)	See Contrast table (2)
	6	Operating Instructions (German)	See Contrast table (2)
	7	Remote Control Unit	XXD3029
	8	Battery Cover	XZA3002
NSP	9	Polyethylene Bag (0.03 × 230 × 340)	Z21-038
	10	Packing Sheet	AHG7069
	11	Left Pad R4	XHA3024
	12	Right Pad R4	XHA3025
	13	Packing Case 810/MY	XHD3152
	14	Operating Instructions (Dutch/Swedish/Portuguese)	See Contrast table (2)
	15	Operating Instructions (French/Italian/Spanish)	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D810S/MYXJIEW, MYXJIGR and MVXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D810S /MYXJIEW	VSX-D810S /MYXJIGR	VSX-D810S /MVXJI	
	5	Operating Instructions (English)	XRB3005	Not used	XRB3005	
	6	Operating Instructions (German)	XRC3031	XRC3031	Not used	
	14	Operating Instructions (Dutch/Swedish/Portuguese)	XRC3032	Not used	Not used	
	15	Operating Instructions (French/Italian/Spanish)	XRC3033	Not used	Not used	

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

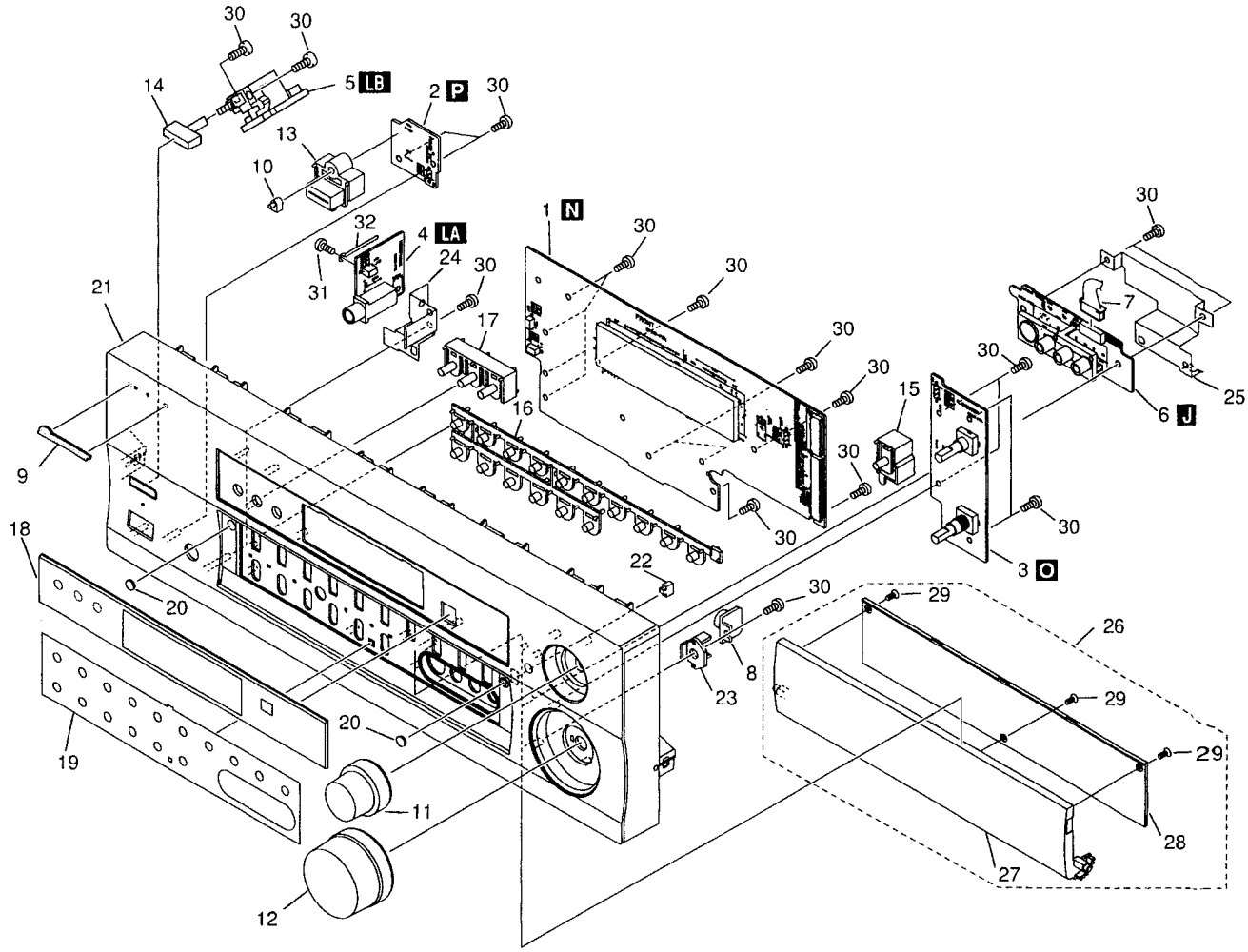
Mark	No.	Description	Part No.
	1	D.D UCOM Assy	XWZ3398
	2	AMP&PRIMARY Assy	XWZ3381
	3	REGULATOR Assy	XWZ3386
	4	AMP INPUT Assy	XWZ3389
	5	TRANS 2 Assy	XWZ3404
	6	VIDEO&6CH IN Assy	XWZ3335
	7	6CH IN Assy	XWZ3350
	8	S. VIDEO Assy	XWZ3363
	9	COMPONENT Assy	XWZ3366
	10	BOARD TO BOARD Assy	XWZ3371
	11	FM/AM TUNER MODULE	AXQ7232
NSP	12	TRANS 1 Assy	XWZ3390
NSP	13	TRANS 3 Assy	XWZ3392
	14	TRANS 4 Assy	XWZ3369
⚠	15	Power Transformer (T1) (AC220-230V)	XTS3047
⚠	16	Fuse (FU1 : T3.15A)	REK1027
	17	••••••	
	18	••••••	
	19	Cord Stopper	CM-22B
⚠	20	AC Power Cord	See Contrast table (2)
	21	FFC (J32 : 13P/30V) (D.D UCOM CN103 ↔ FRONT CN401)	XDD3062
	22	FFC (J31 : 31P/30V) (D.D UCOM CN102 ↔ FRONT CN402)	XDD3063
	23	FFC (J38 : 5P/30V) (BOARD TO BOARD CN392 ↔ COMPORNENT CN5501)	XDD3073
	24	FFC (J36 : 23P/30V) (REGULATOR CN801 ↔ AMP&PRIMARY CN53)	XDD3064
	25	FFC (J39, J40 : 20P/30V) (D.D UCOM CN9501 ↔ D.D DSP CN9806) (D.D UCOM CN9502 ↔ D.D DSP CN9805)	XDD3065
	26	FFC (J34 : 13P/30V) (D.D UCOM CN105 ↔ FM/AM TUNER UNIT)	XDD3059
	27	FFC (J33 : 15P/30V) (D.D UCOM CN104 ↔ VIDEO&6CH IN CN303)	XDD3069
	28	FFC (J35 : 19P/30V) (D.D UCOM CN106 ↔ AMP INPUT CN254)	XDD3071
	29	Insulator	PNW2766
NSP	30	Under Base 409	ANA7094
	31	PCB Angle	ANG7253
	32	••••••	
NSP	33	Heat Sink Assy 0.4×40	XNH3020
	34	Heat Sink Angle F	ANG7251
	35	Heat Sink Angle R	ANG7252
NSP	36	Heat Sink 0.4×40	XNH3019
	37	••••••	
	38	••••••	
	39	Rear Panel 810MY	XNC3073
	40	Bonnet Case	XZN3112
	41	Screw	ABA7043
	42	••••••	
	43	PCB Mold	AMR2533
	44	Screw	BBZ30P080FMC
	45	Screw	BBZ30P200FMC
	46	Screw	FBT40P080FZK
	47	FFC (J22 : 3P/30V) (TRANS 4 CN891 ↔ AMP INPUT CN251)	XDD3061
	48	Fan Motor	XXM3002
	49	Fan Holder R4	XNG3040
	50	Fuse Card	AAX7493
NSP	51	Binder Assy	XWZ3401
NSP	52	Hold Assy	XWZ3402
	53	D.D DSP Assy	XWZ3395
	54	D TO O Assy	XWZ3368
	55	FFC (J45 : 4P/30V) (AMP INPUT CN603 ↔ COMPORNENT CN1576)	XDD3066
	56	FFC (J46 : 7P/30V) (AMP INPUT CN604 ↔ COMPORNENT CN1575)	XDD3067
	57	FFC (J48 : 9P/30V) (VIDEO&6CH IN CN304 ↔ 6CH IN CN307)	XDD3070
	58	FFC Cover R4	XMR3019
	59	SH Support R4	XNG3041
	60	Shield A R4	XNG3042
	61	Shield B R4	XNG3043
	62	Washer	VEC1254

(2) CONTRAST TABLE

VSX-D810S/MYXJIEW, MYXJIGR and MVXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D810S /MYXJIEW	VSX-D810S /MYXJIGR	VSX-D810S /MVXJI	
⚠	20	AC Power Cord	VDG1080	VDG1080	VDG1076	

2.3 FRONT PANEL SECTION



● FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT Assy	XWZ3346
	2	POWER SW Assy	XWZ3352
	3	R. ENCODER Assy	XWZ3354
	4	H.P. Assy	XWZ3357
	5	MECHA SW Assy	XWZ3358
	6	FRONT VIDEO Assy	XWZ3359
NSP	7	8P Shield Cable	XDX3012
	8	Damper Assy	AXA7052
	9	Name Plate	PAM1776
	10	LED Lens	PNW2019
	11	Select Knob R4B	XAB3008
	12	Volume Knob R4B	XAB3011
	13	Power Button R4B	XAD3062
	14	Power Button M	AAD7442
	15	Jog Button R4B	XAD3065

Mark	No.	Description	Part No.
	16	Door Button R4B	XAD3070
	17	RDS Button R4B	XAD3072
	18	Display Panel W/MY	XAK3171
	19	Button Cover R4B2	XAK3224
	20	Cushion R4B	XED3001
	21	Front Panel 810/MY	XMB3037
	22	Magnet 35	AMF7007
	23	Holder L R4	XMR3016
	24	Earth Plate A R4	XNG3044
	25	Earth Plate B R4	XNG3045
NSP	26	Door Assy R4B	XXG3068
	27	Door R4B	XAK3173
	28	Door Cover R4B	XAK3175
	29	Screw	XBA3001
	30	Screw	PPZ30P080FMC
	31	Screw	BBZ30P080FMC
	32	Cord Clamper	RNH-184

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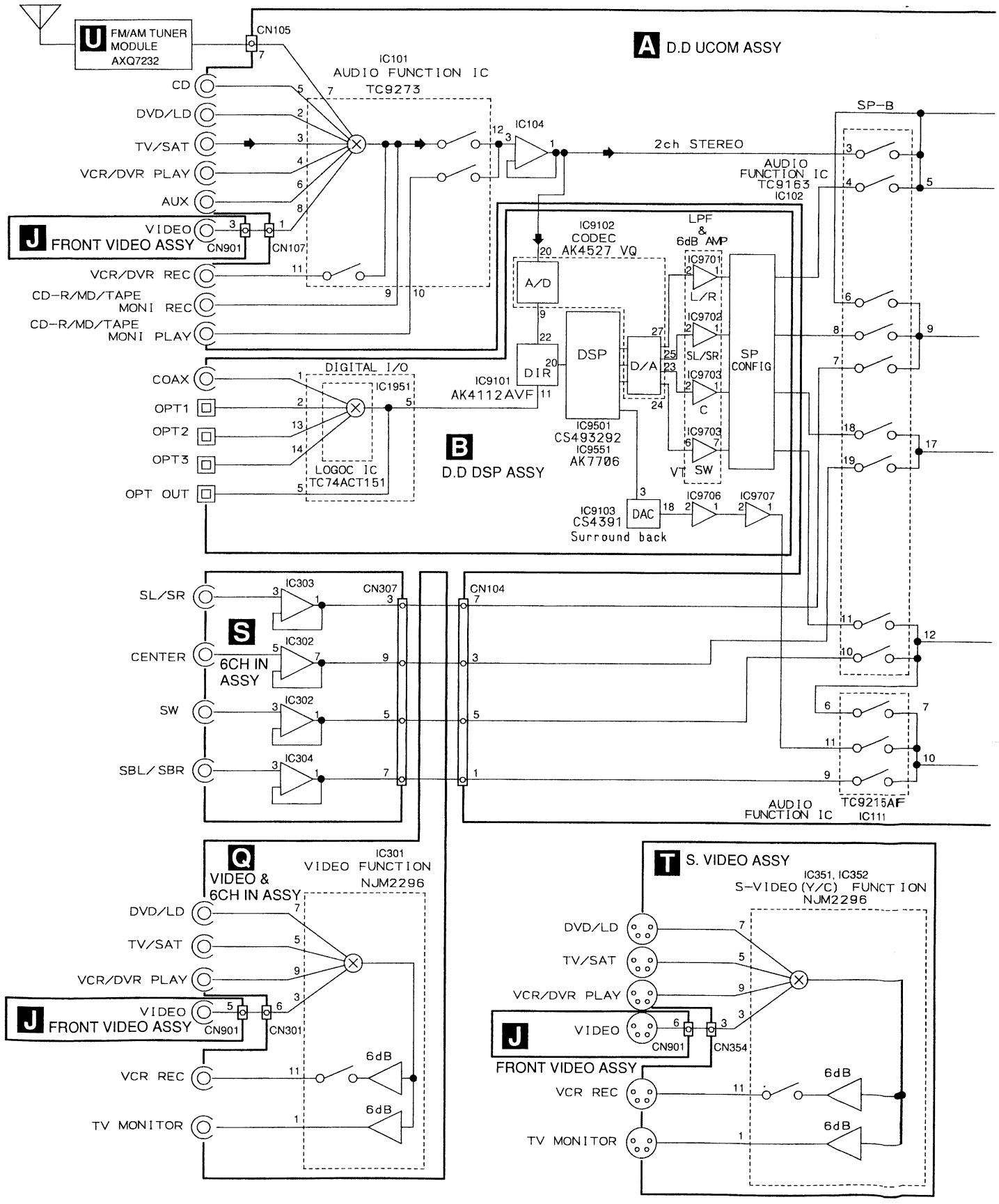
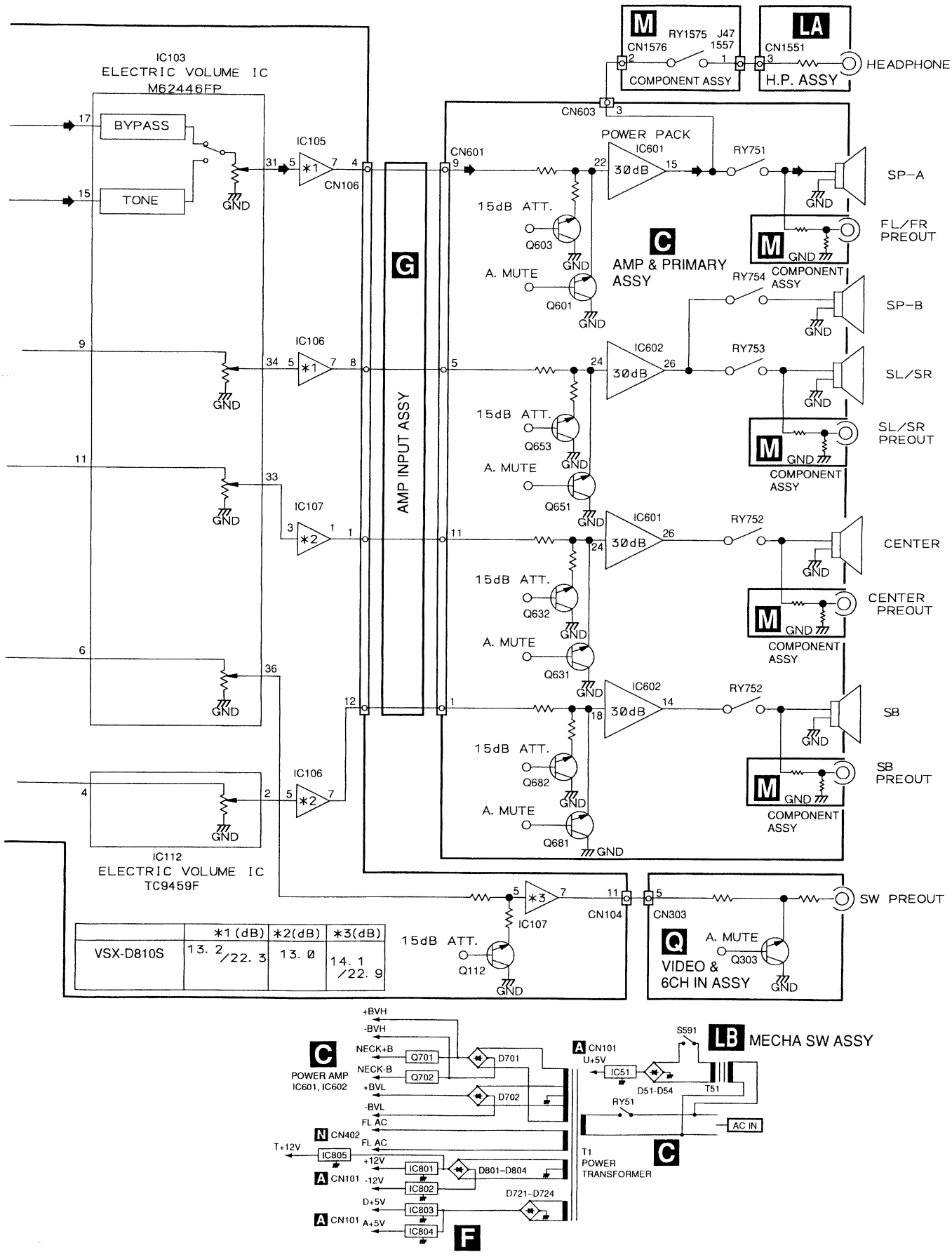
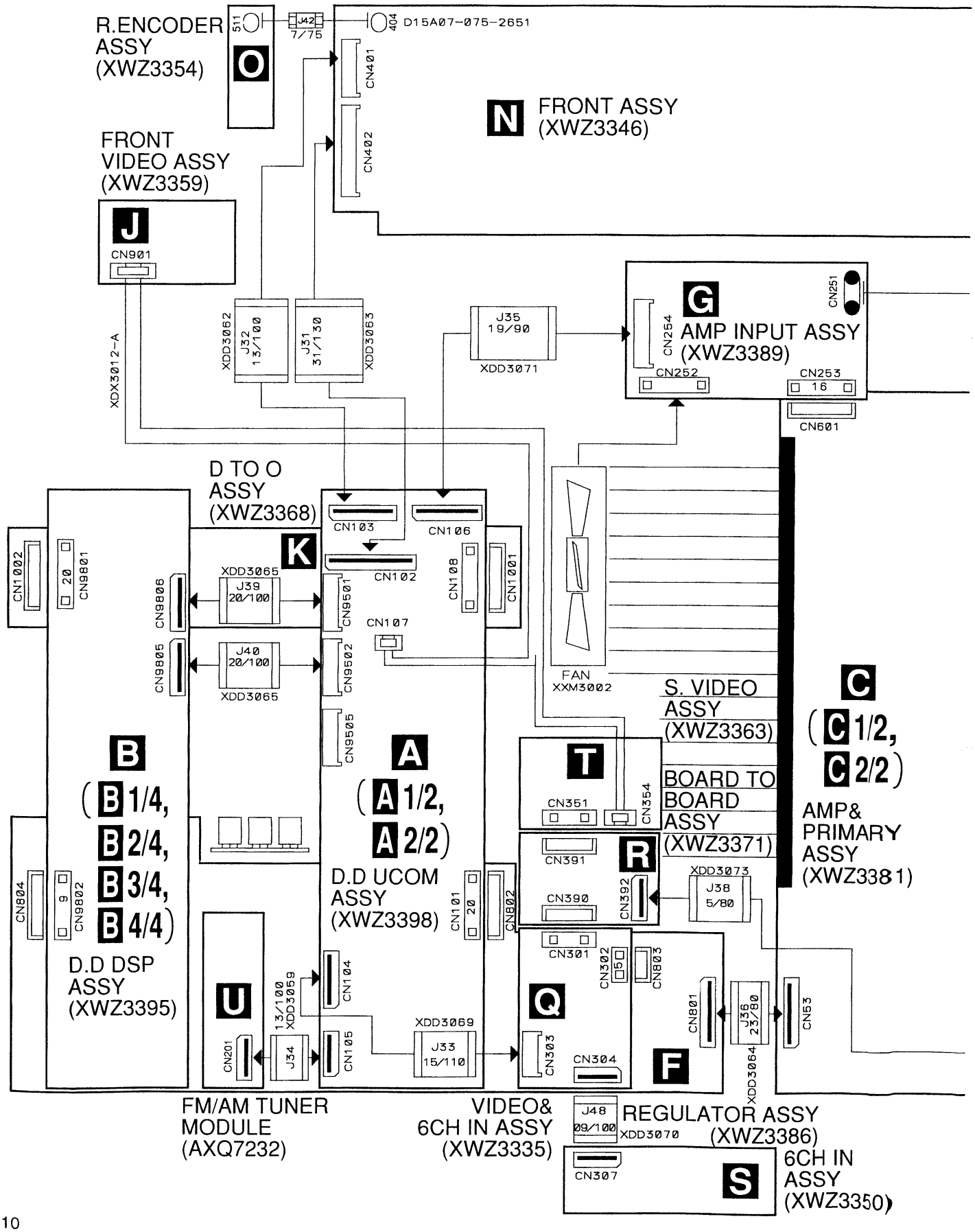
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

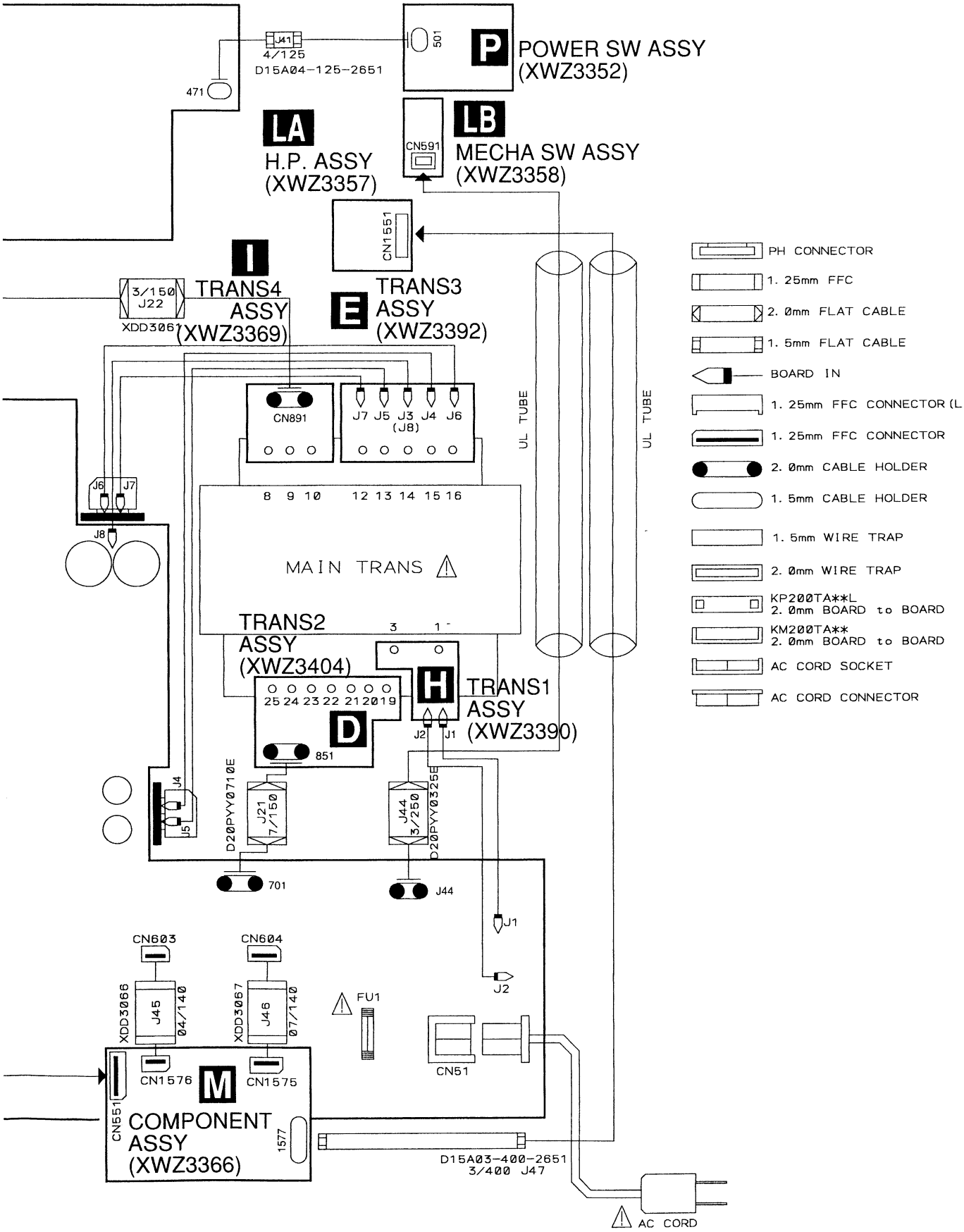



IC103
ELECTRIC VOLUME IC
M62446FP
BYPASS
TONE
GND
IC105
IC106
IC107
CN106
CN601
CN603
POWER PACK
IC601
IC602
30dB
RY751
RY752
RY753
RY754
15dB ATT.
Q603
Q653
Q632
Q682
A. MUTE
Q601
Q651
Q631
Q681
G
AMP INPUT ASSY
C
AMP & PRIMARY ASSY
M
COMPONENT ASSY
RY1575 J47 1557
CN1576
LA
CN1551
H.P. ASSY
HEADPHONE
SP-A
FL/FR PREOUT
SP-B
SL/SR
SL/SR PREOUT
CENTER
CENTER PREOUT
SB
SB PREOUT
IC112
ELECTRIC VOLUME IC
TC9459F
IC107
CN104
CN303
SW PREOUT
Q112
Q
VIDEO & 6CH IN ASSY
Q303
*1 (dB) *2(dB) *3(dB)
VSX-D810S 13. 2/22. 3 13. 0 14. 1/22. 9
+BVH
-BVH
NECK+B
NECK-B
+BVL
-BVL
FL AC
Q701
Q702
D701
D702
N CN402
IC805
T+12V
+12V
-12V
D+5V
A+5V
IC801
IC802
IC803
IC804
D801-D804
D721-D724
F
A CN101
U+5V
IC51
D51-D54
T51
RY51
AC IN
T1
POWER TRANSFORMER
S591
LB
MECHA SW ASSY

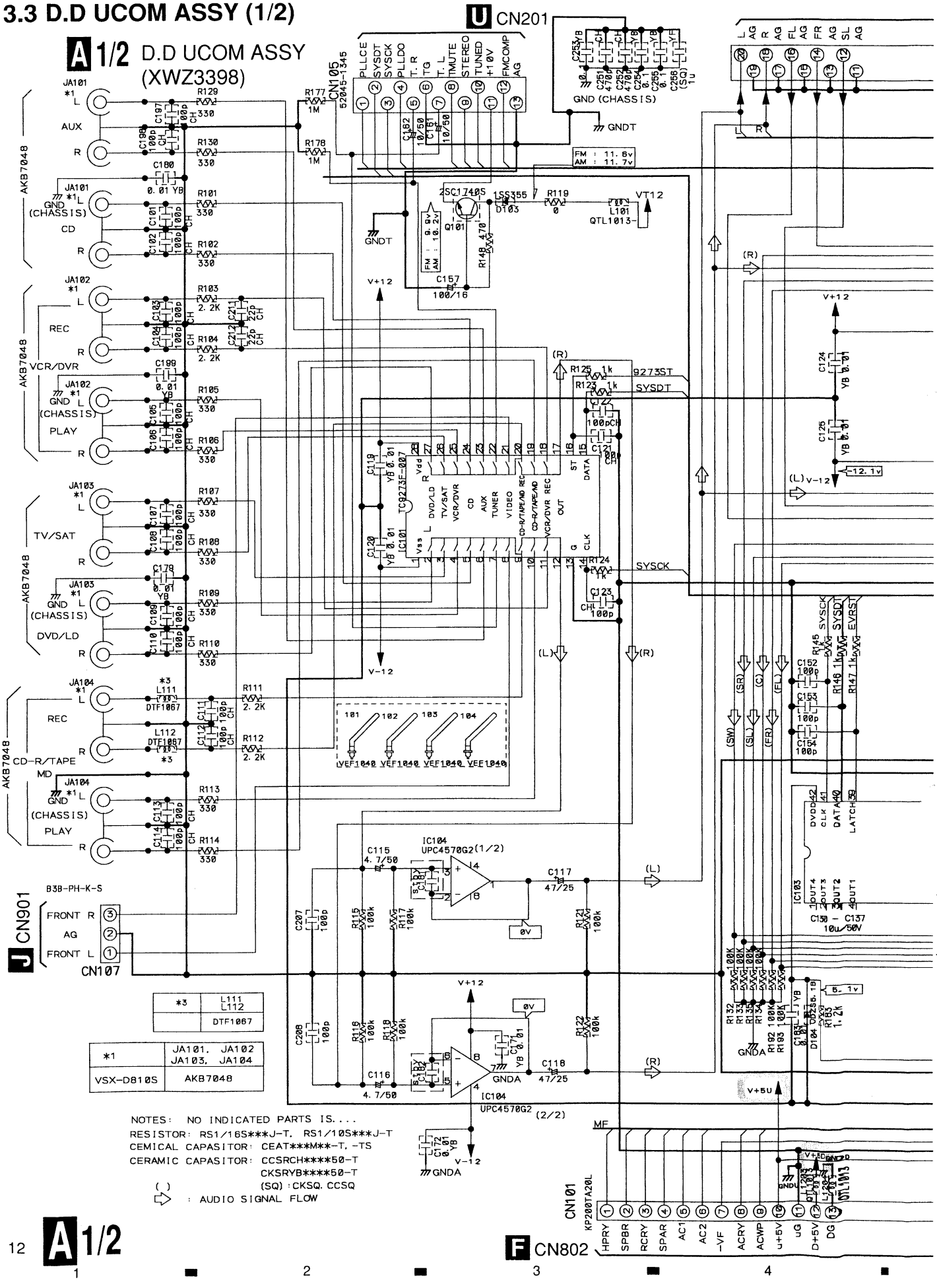
3.2 OVERALL WIRING CONNECTION DIAGRAM



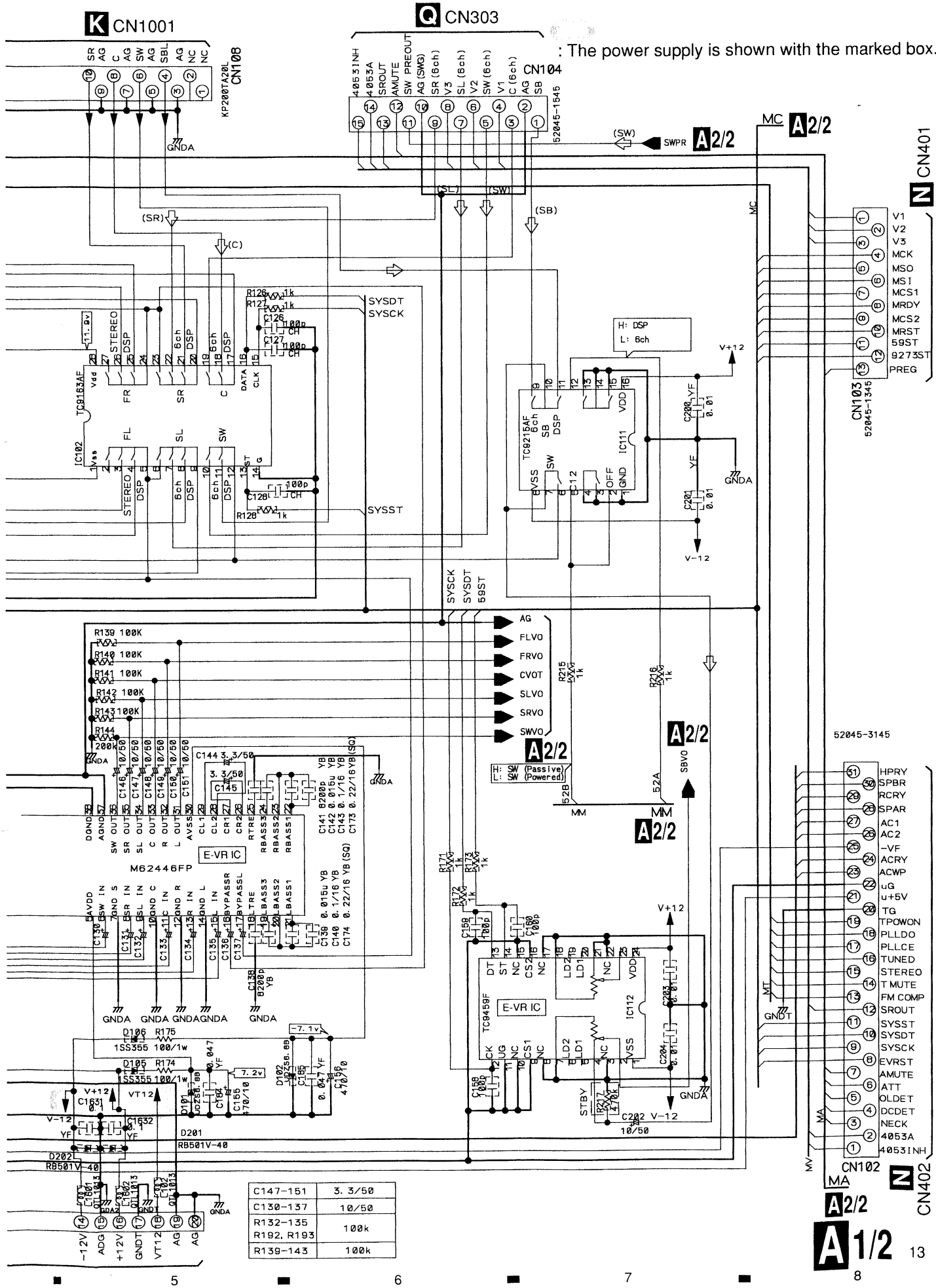
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



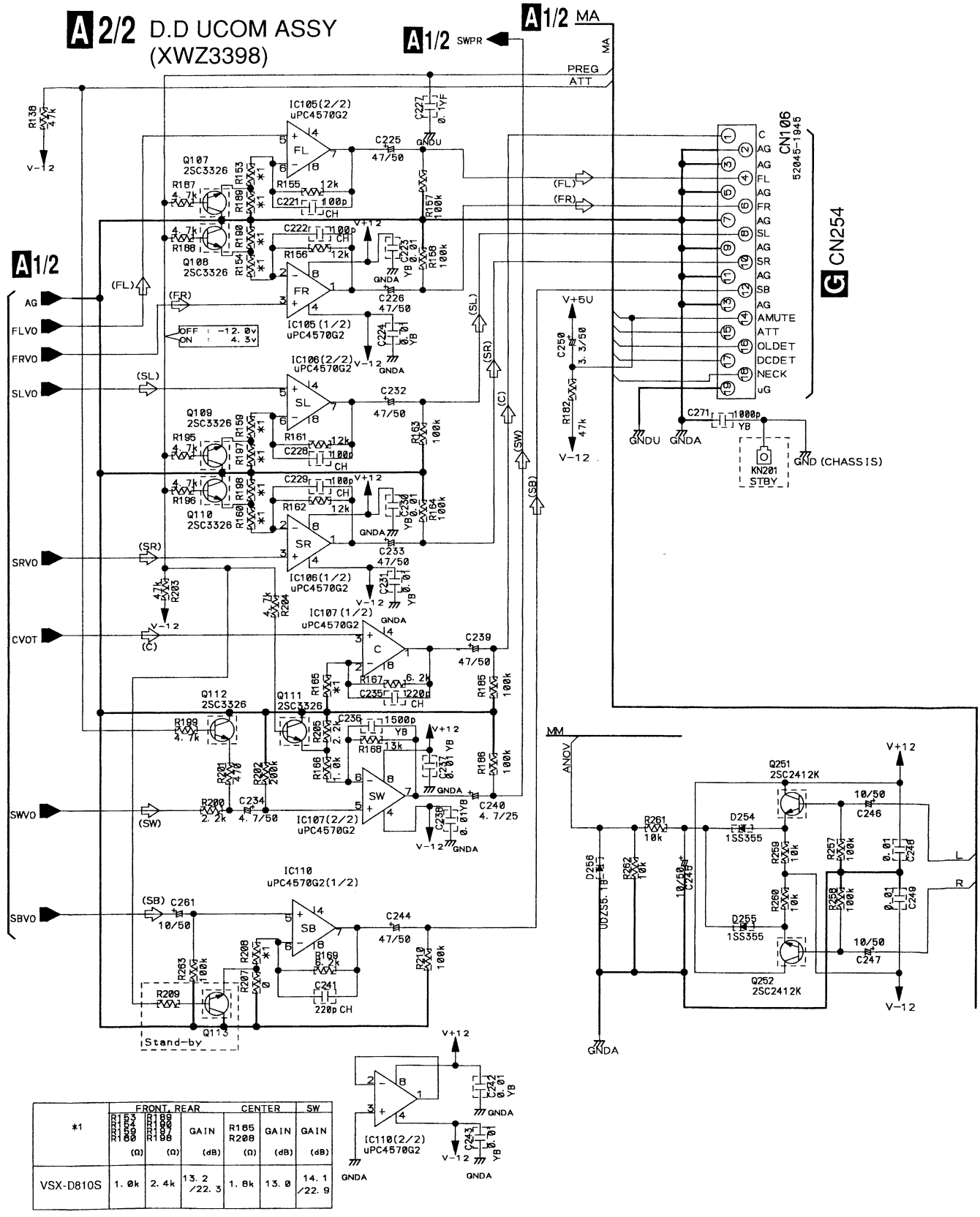
3.3 D.D UCOM ASSY (1/2)



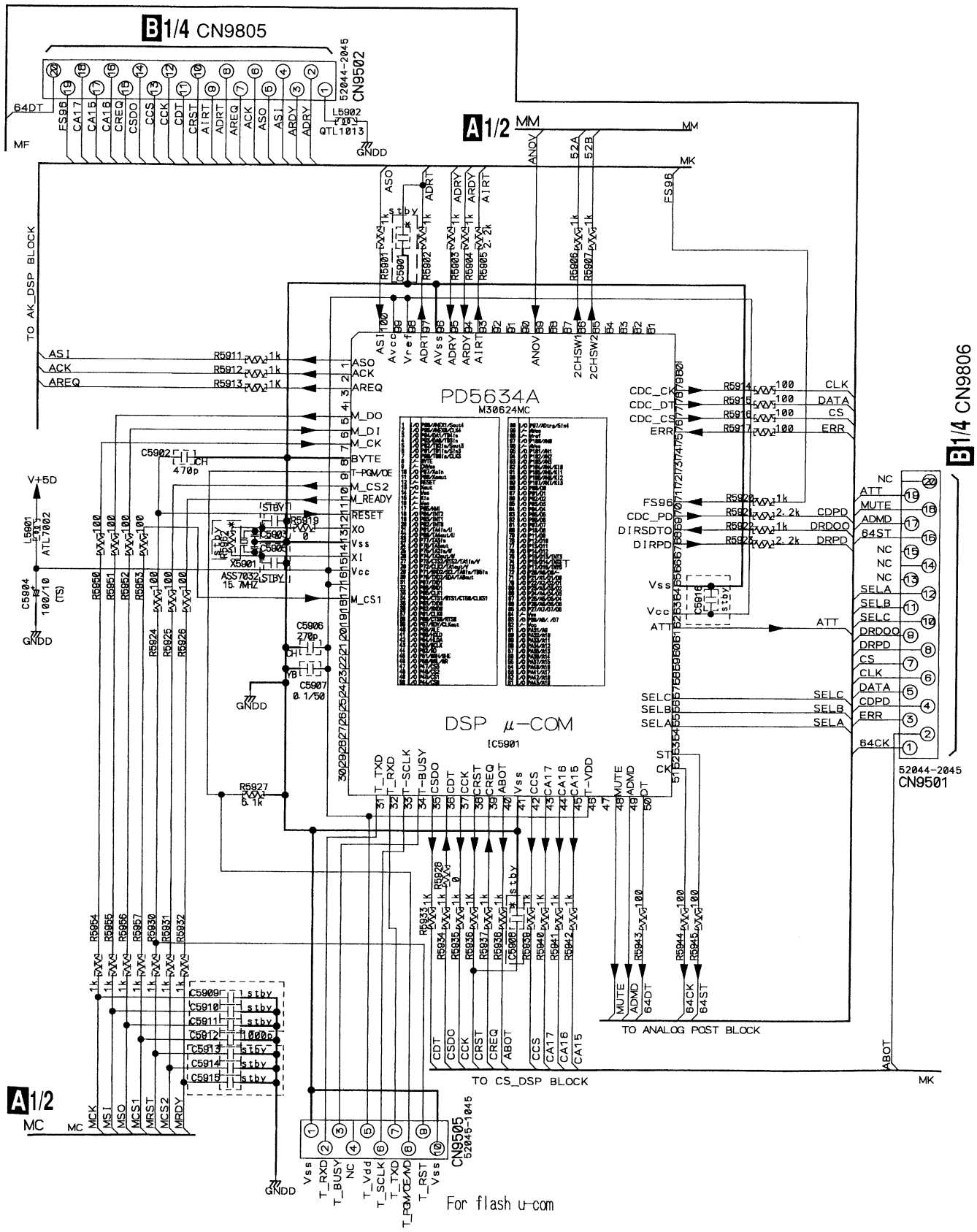
: The power supply is shown with the marked box.



3.4 D.D UCOM ASSY (2/2)

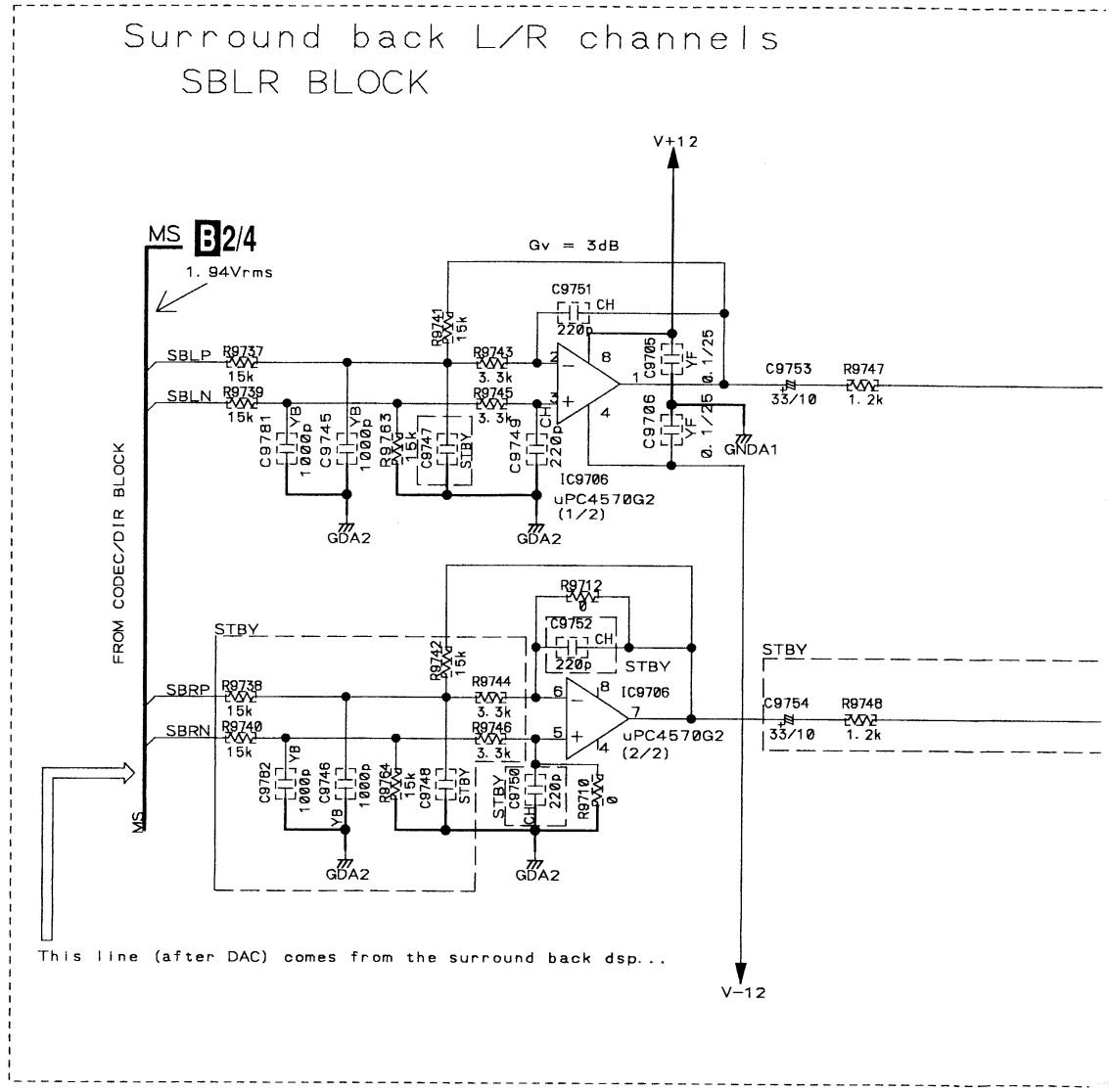


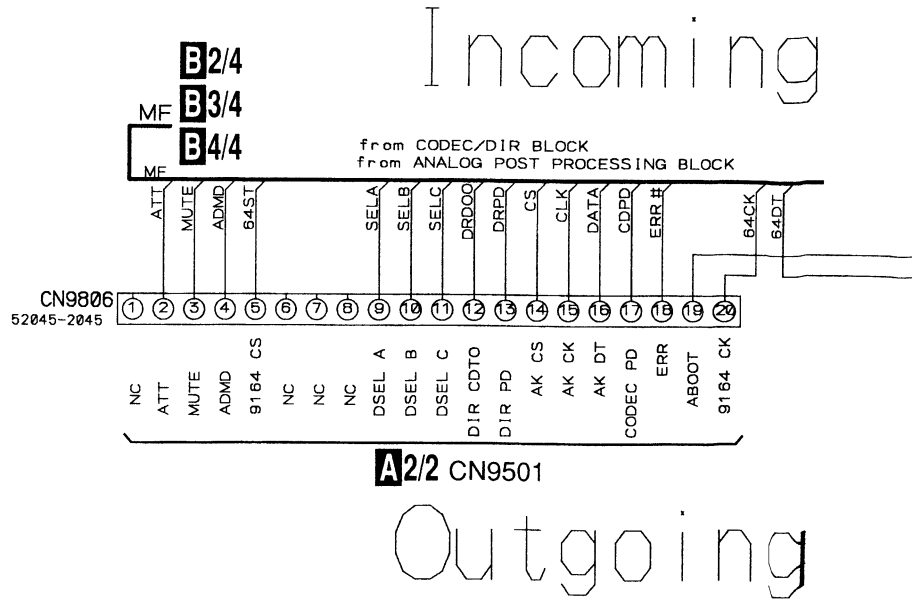
*1	FRONT, REAR			CENTER		SW
	R153 R154 R155 R156 R157 R158 R159 R160 R161 R162 R163 R164 R165 R166 R167 R168 R185 R186	R187 R188 R195 R196 R197 R198 R199 R200	GAIN	R165 R208	GAIN	GAIN
	(Ω)	(Ω)	(dB)	(Ω)	(dB)	(dB)
VSX-D810S	1.0k	2.4k	13.2 /22.3	1.8k	13.0	14.1 /22.9

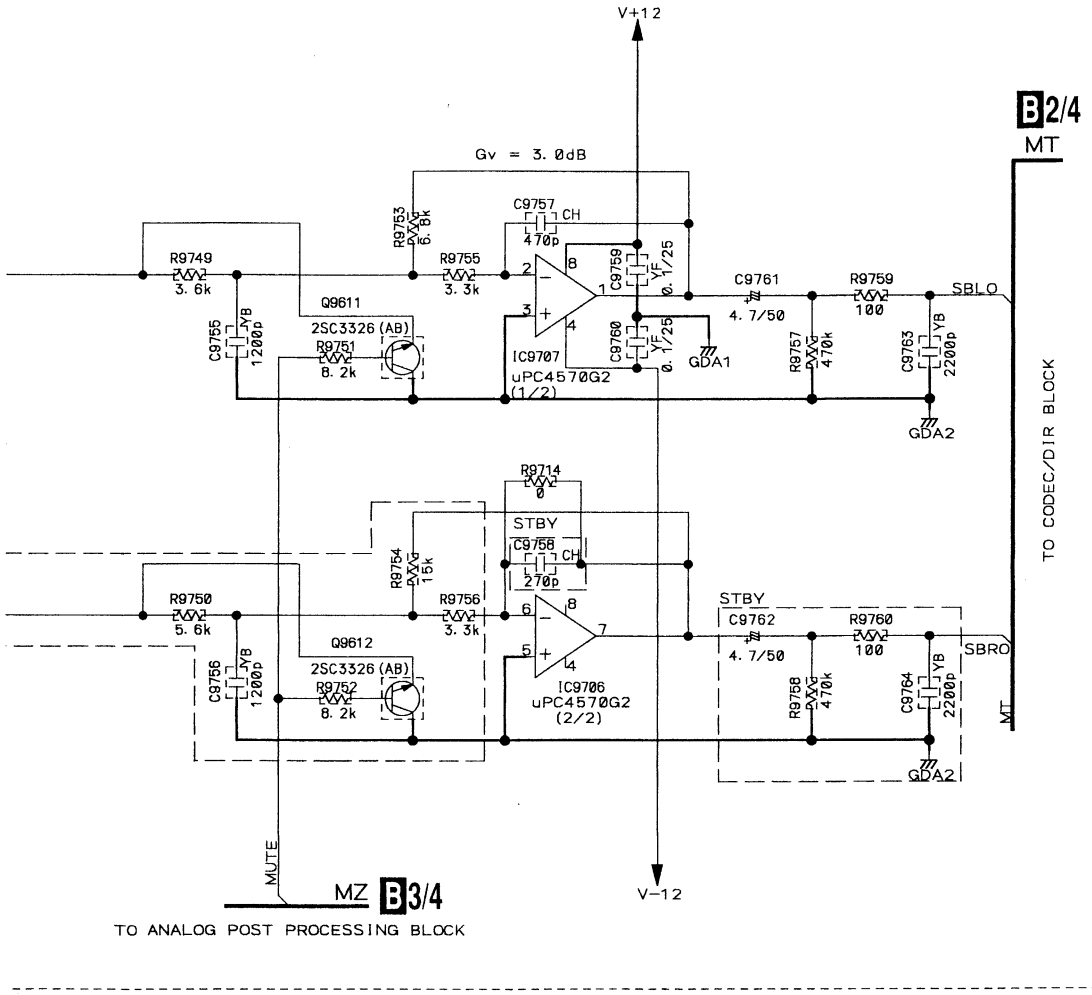

B1/4 CN9805
CN9502
52044-2045
64DT
MF
FS96
CA17
CA15
CA16
CREQ
CSDO
CCS
CCK
CDT
CRST
AIRT
ADRT
AREQ
ACK
ASO
ASI
ADRY
ARDY
L5902
QTL1013
GNDD
A1/2 MM
MM
MK
ANOV
52A
52B
TO AK_DSP BLOCK
PD5634A
M30624MC
DSP μ-COM
(C5901)
ASI
ACK
AREQ
M_DO
M_DI
M_CK
BYTE
T-PGM/OE
M_CS2
M_READY
RESET
XO
Vss
XI
Vcc
M_CS1
Avcc
Vref
AVss
2CHSW1
2CHSW2
C5902
470p
V+5D
L5901
ATL7002
C5904
100/10
(TS)
X5901
ASS7032
16.7MHZ
C5906
270p
C5907
0.1/50
R5927
5.1k
R5911 1k
R5912 1k
R5913 1K
R5914 100
R5915 100
R5916 100
R5917 100
R5918 1k
R5919 0
R5920 1k
R5921 2.2k
R5922 1k
R5923 2.2k
CDC_CK
CDC_DT
CDC_CS
ERR
CDC_PD
DIRSDTO
DIRPD
CLK
DATA
CS
CDPD
DRDOO
DRPD
ATT
B1/4 CN9806
CN9501
52044-2045
NC
MUTE
ADMD
64ST
SELA
SELB
SELC
DRDOO
DRPD
CS
CLK
DATA
CDPD
ERR
64CK
T_TXD
T_RXD
T-SCLK
T-BUSY
CSDO
CDT
CCK
CRST
CREQ
ABOT
Vss
CCS
CA17
CA16
CA15
T-VDD
MUTE
ADMD
64DT
64CK
64ST
TO ANALOG POST BLOCK
TO CS_DSP BLOCK
ABOT
MK
A1/2
MC
MCK
MSI
MSO
MCS1
MRST
MCS2
MRDY
C5909
C5910
C5911
C5912
C5913
C5914
C5915
stby
CN9505
52045-1045
Vss
T_RXD
T_BUSY
NC
T_Vdd
T_SCLK
T_TXD
T_PGM/OEMD
T_RST
Vss
For flash u-com
A2/2
15

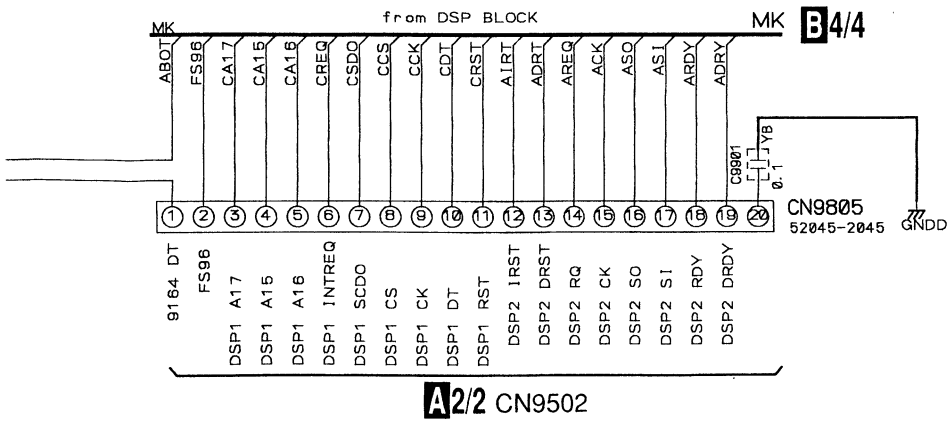
3.5 D.D DSP ASSY (1/4)

B 1/4
D.D DSP ASSY
(XWZ3395)



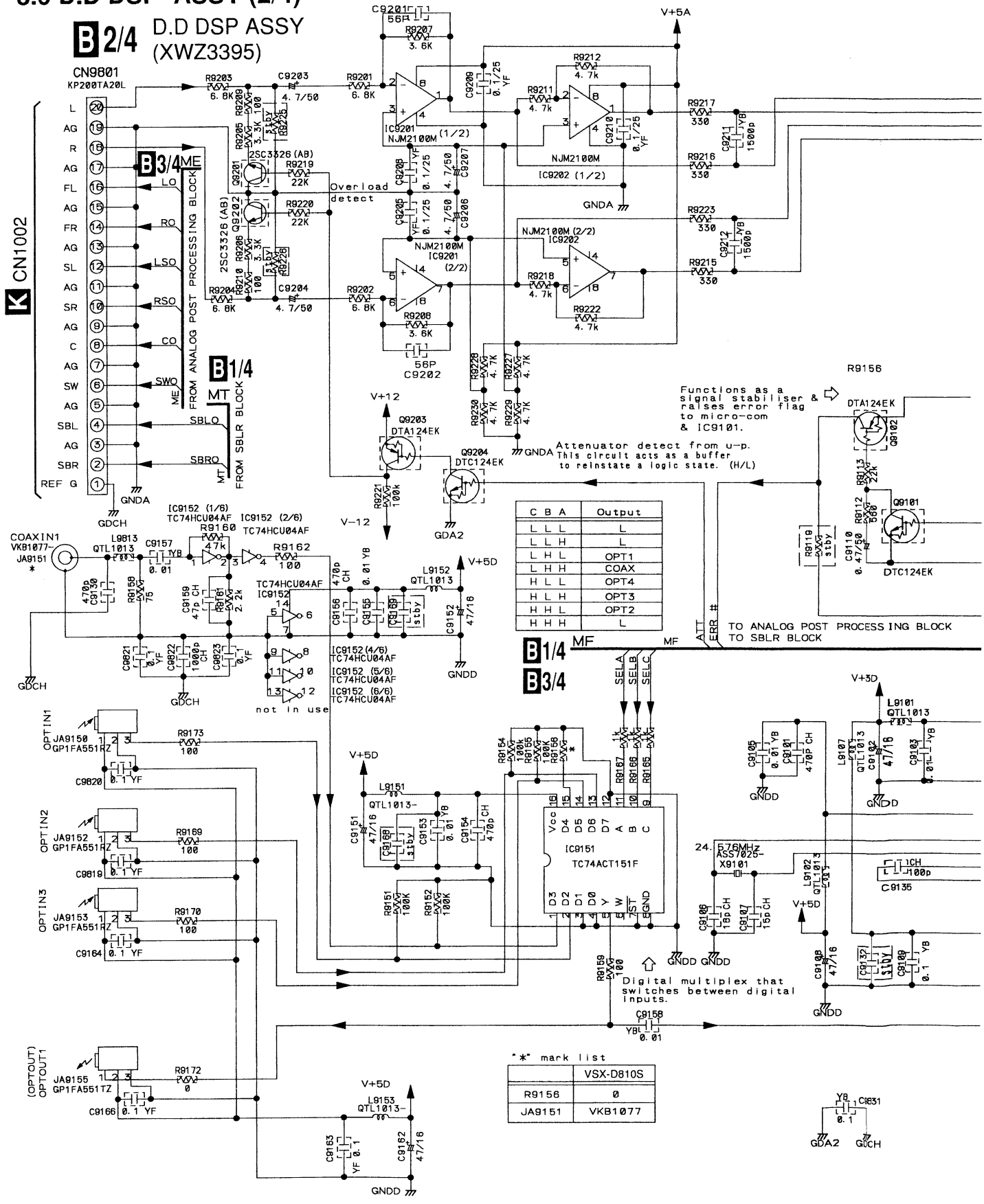



V+12
Gv = 3.0dB
R9753 6.8k
C9757 CH 470p
R9749 3.6k
R9755 3.3k
C9759 VF 0.1/25
C9761 4.7/50
R9759 100
SBLO
Q9611
2SC3326(AB)
C9755 YB 1200p
R9751 8.2k
IC9707 uPC4570G2 (1/2)
C9760 VF 0.1/25
GDA1
R9757 470k
C9763 YB 2200p
GDA2
B2/4 MT
TO CODEC/DIR BLOCK
R9714 0
STBY
C9758 CH 270p
R9754 15k
R9750 5.6k
R9756 3.3k
C9762 4.7/50
R9760 100
SBRO
Q9612
2SC3326(AB)
C9756 YB 1200p
R9752 8.2k
IC9706 uPC4570G2 (2/2)
R9758 470k
C9764 YB 2200p
GDA2
MT
MUTE
MZ B3/4
TO ANALOG POST PROCESSING BLOCK
V-12
Output to DSP 2/4


MK
from DSP BLOCK
MK B4/4
ABOT FS96 CA17 CA15 CA16 CREQ CSDO CCS CCK CDT CRST AIRT ADRT AREQ ACK ASO ASI ARDY ADRY
C9801 YB 0.1
CN9805
52045-2045
GNDD
9164 DT
FS96
DSP1 A17
DSP1 A15
DSP1 A16
DSP1 INTREQ
DSP1 SCDO
DSP1 CS
DSP1 CK
DSP1 DT
DSP1 RST
DSP2 IRST
DSP2 DRST
DSP2 RQ
DSP2 CK
DSP2 SO
DSP2 SI
DSP2 RDY
DSP2 DRDY
A2/2 CN9502

3.6 D.D DSP ASSY (2/4)

B 2/4 D.D DSP ASSY (XWZ3395)

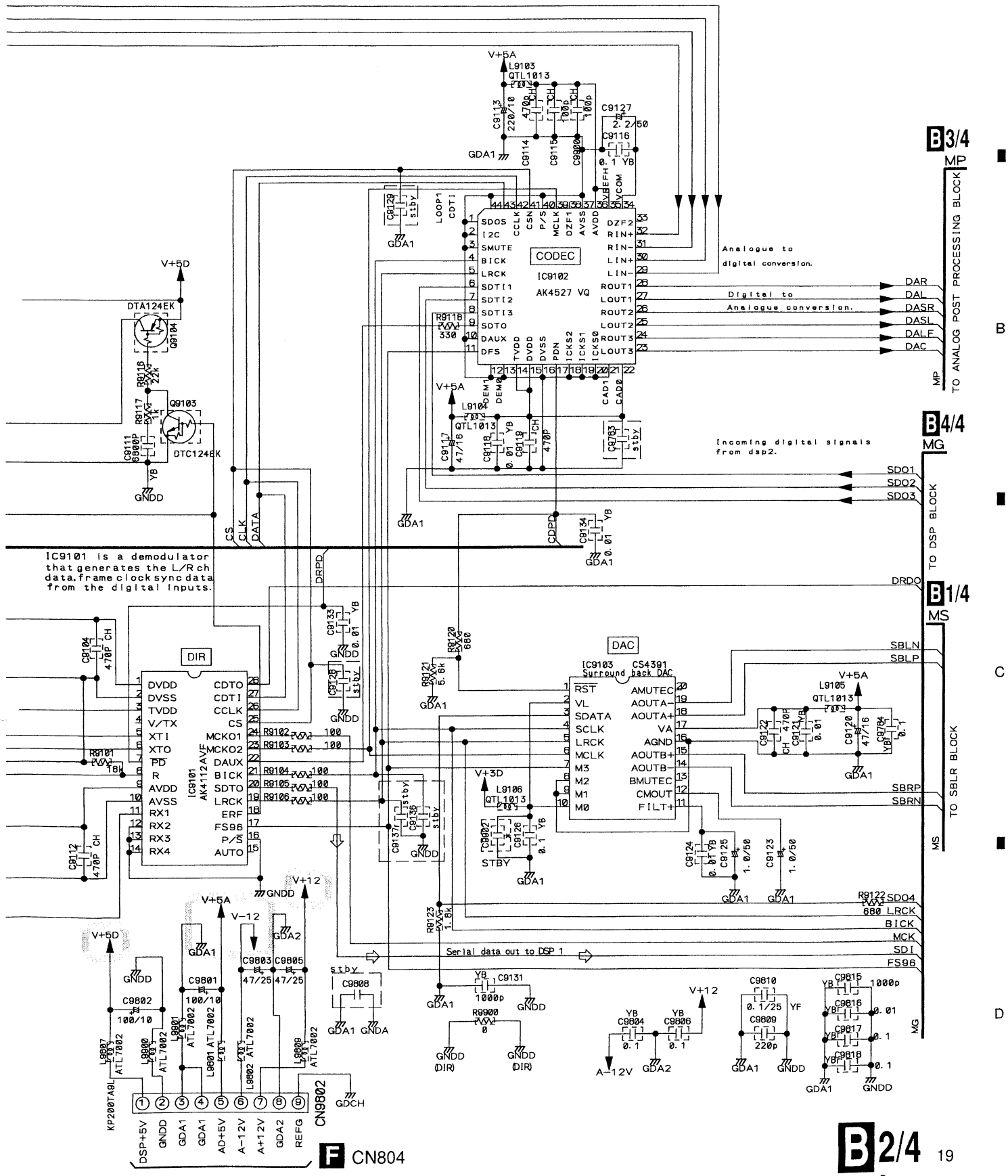


C B A	Output
L L L	L
L L H	L
L H L	OPT1
L H H	COAX
H L L	OPT4
H L H	OPT3
H H L	OPT2
H H H	L

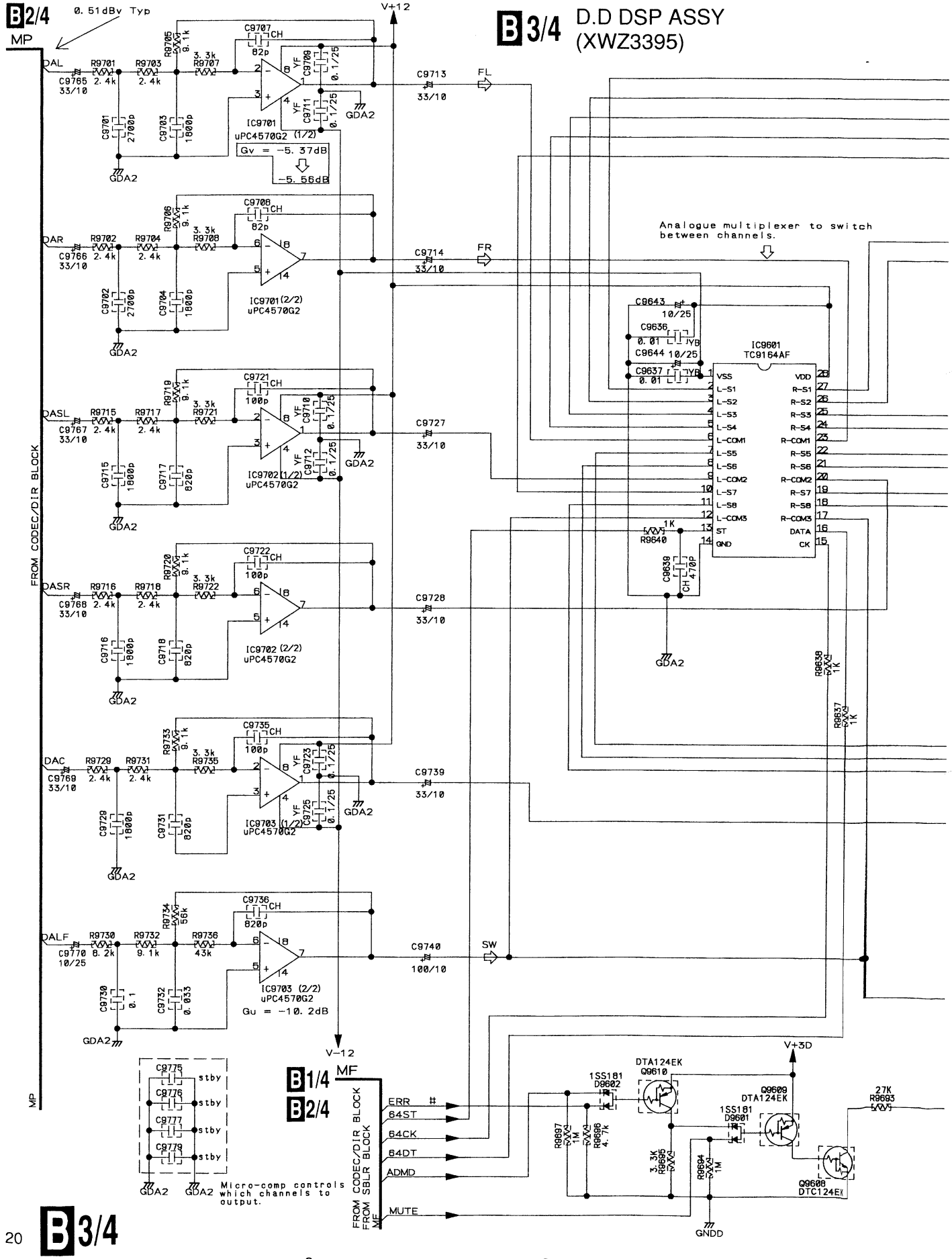
"*" mark list

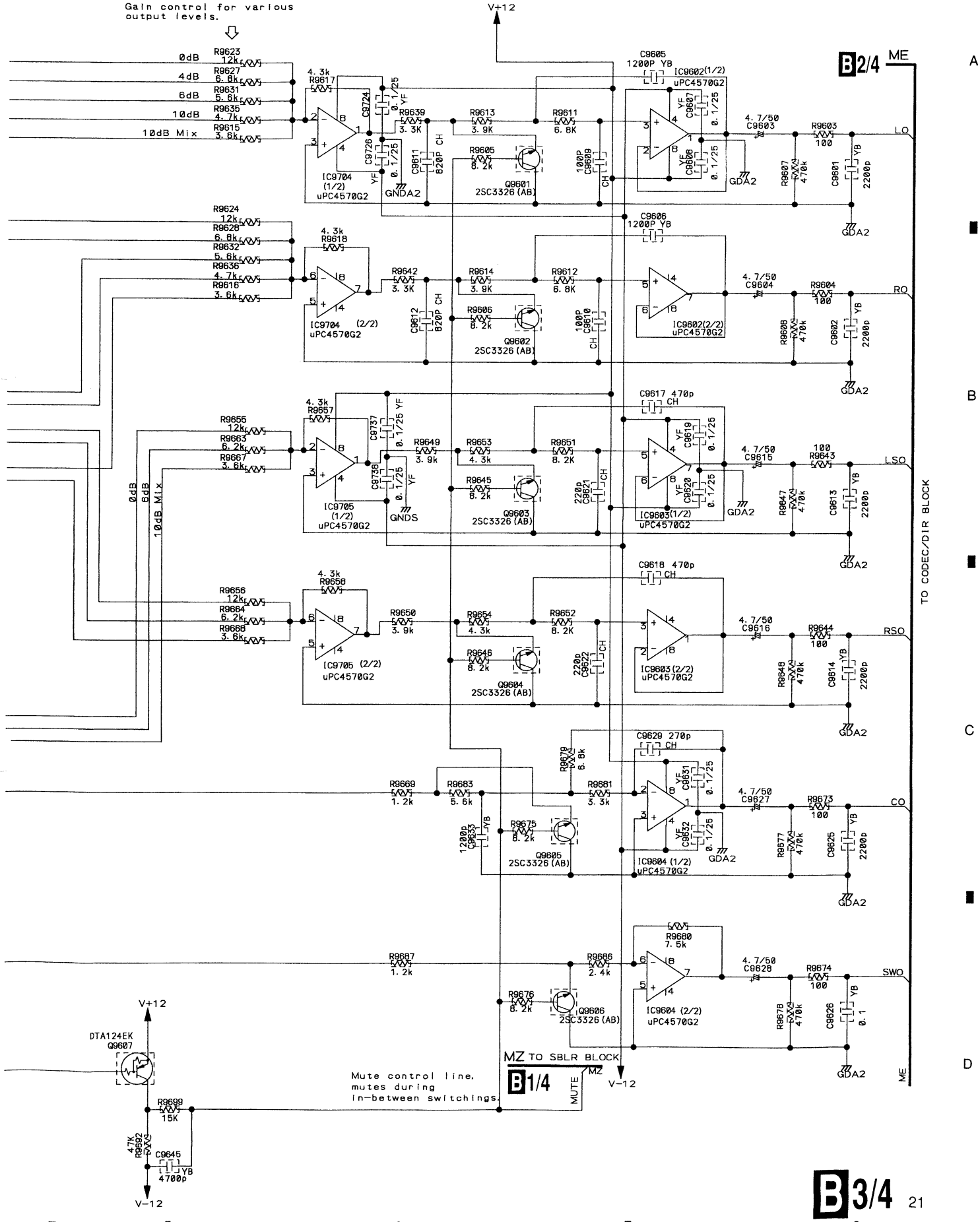
	VSX-D810S
R9156	0
JA9151	VKB1077

: The power supply is shown with the marked box.



3.7 D.D DSP ASSY (3/4)

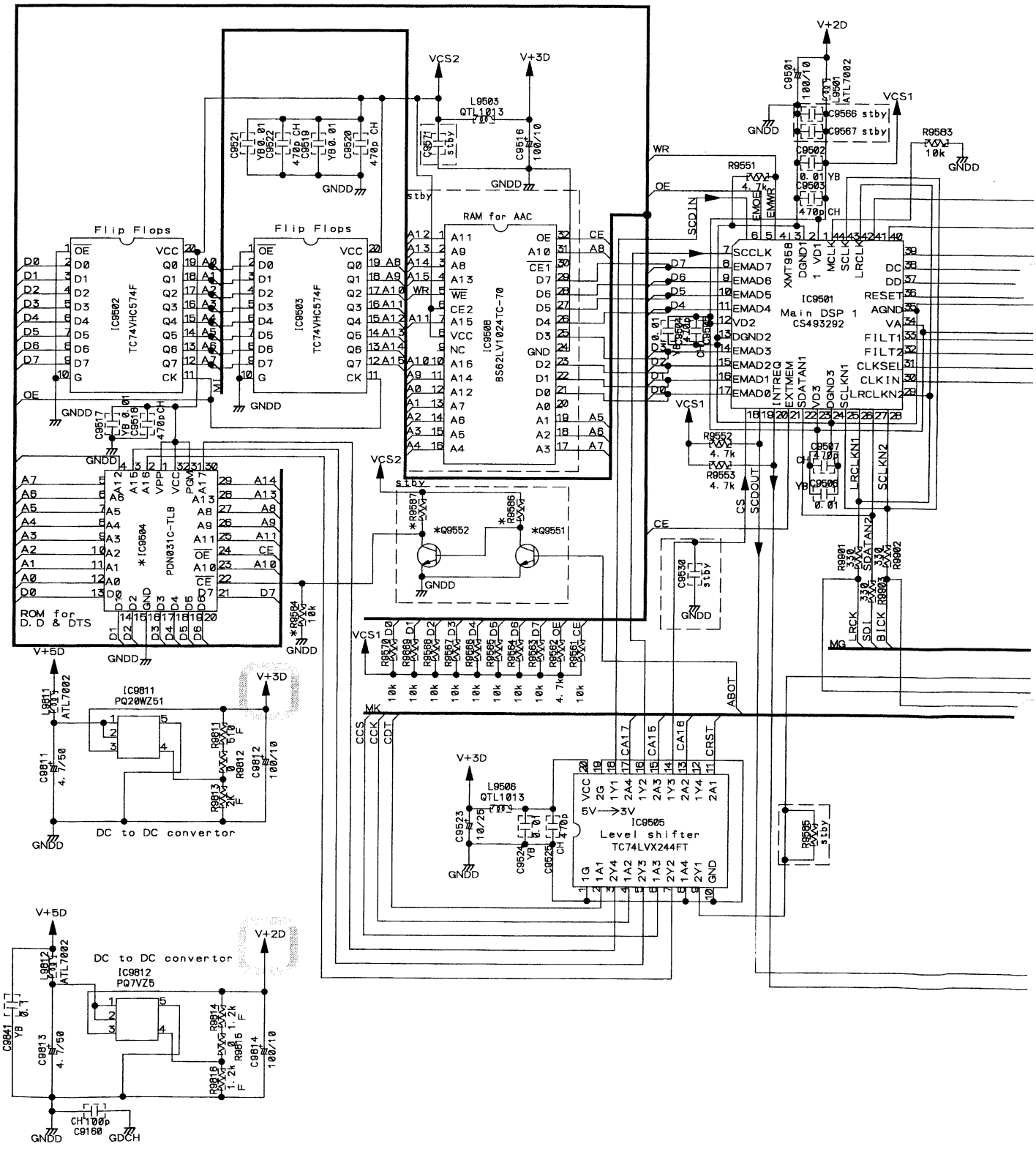



Gain control for various output levels.
V+12
0dB
4dB
6dB
10dB
10dB Mix
R9623 12k
R9627 6.8k
R9631 5.6k
R9635 4.7k
R9615 3.6k
R9624 12k
R9628 6.8k
R9632 5.6k
R9636 4.7k
R9616 3.6k
R9655 12k
R9663 6.2k
R9667 3.6k
R9656 12k
R9664 6.2k
R9668 3.6k
IC9704 (1/2) uPC4570G2
IC9704 (2/2) uPC4570G2
IC9705 (1/2) uPC4570G2
IC9705 (2/2) uPC4570G2
IC9602(1/2) uPC4570G2
IC9602(2/2) uPC4570G2
IC9603(1/2) uPC4570G2
IC9603 (2/2) uPC4570G2
IC9604 (1/2) uPC4570G2
IC9604 (2/2) uPC4570G2
Q9601 2SC3326 (AB)
Q9602 2SC3326 (AB)
Q9603 2SC3326 (AB)
Q9604 2SC3326 (AB)
Q9605 2SC3326 (AB)
Q9606 2SC3326 (AB)
C9605 1200P YB
C9606 1200P YB
C9617 470p CH
C9618 470p CH
C9629 270p CH
LO
RO
LSO
RSO
CO
SWO
TO CODEC/DIR BLOCK
B2/4 ME
DTA124EK Q9607
R9699 15K
47K R9692
C9645 4700p YB
V-12
Mute control line, mutes during in-between switchings.
MZ TO SBLR BLOCK
B1/4 MZ MUTE
B3/4 21

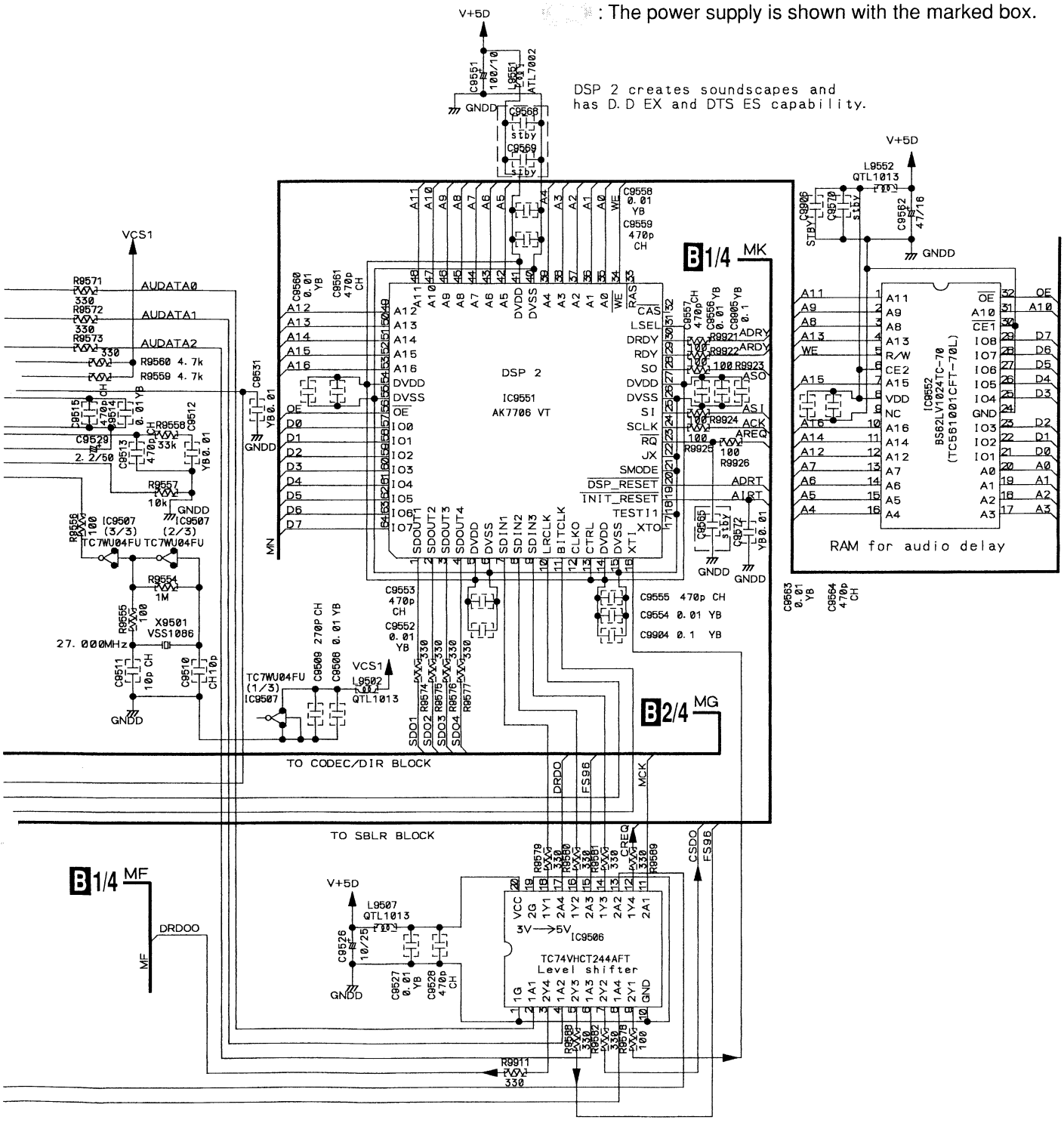
3.8 D.D DSP ASSY (4/4)

B 4/4 D.D DSP ASSY (XWZ3395)

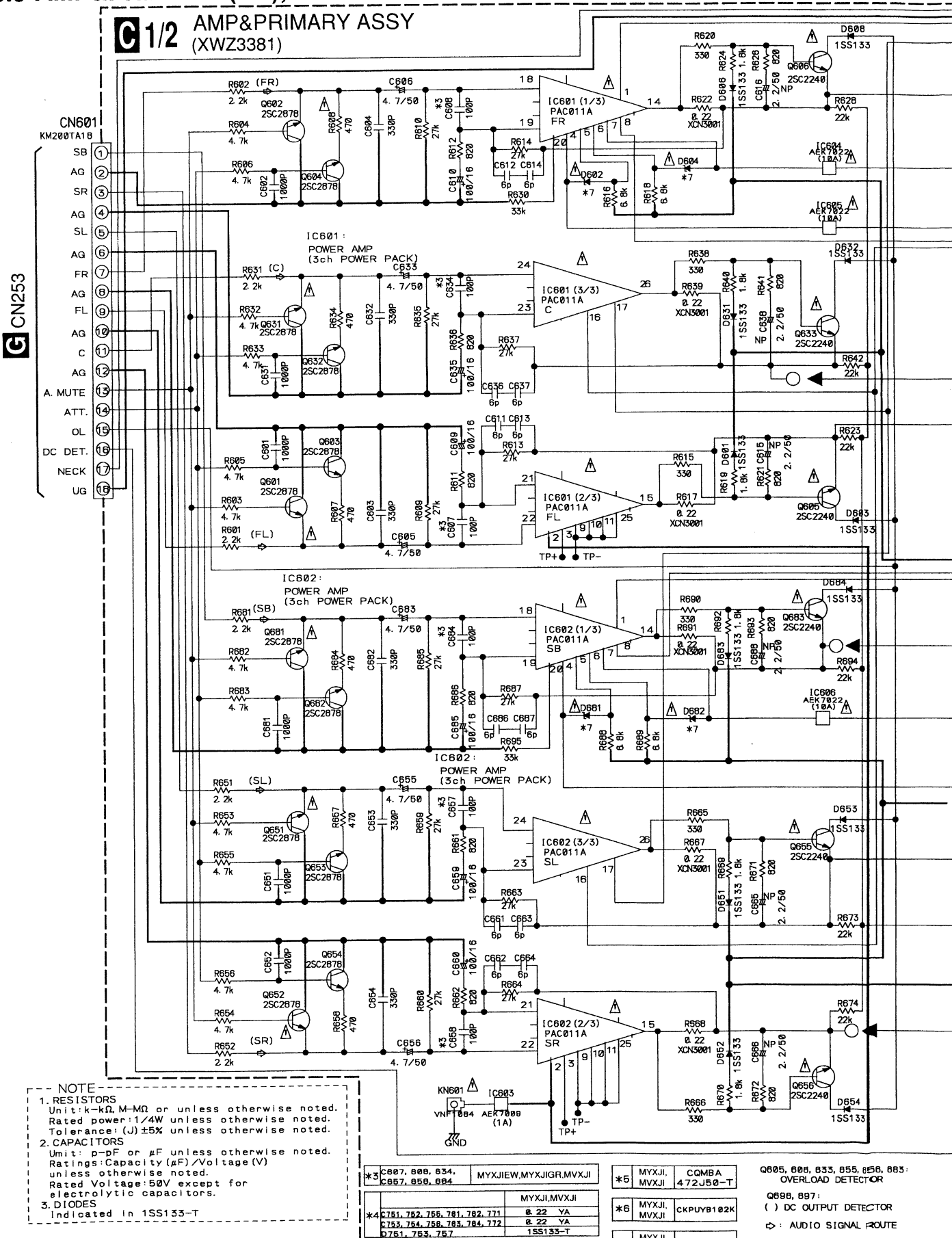
Main DSP 1 decodes D. D and DTS signals.

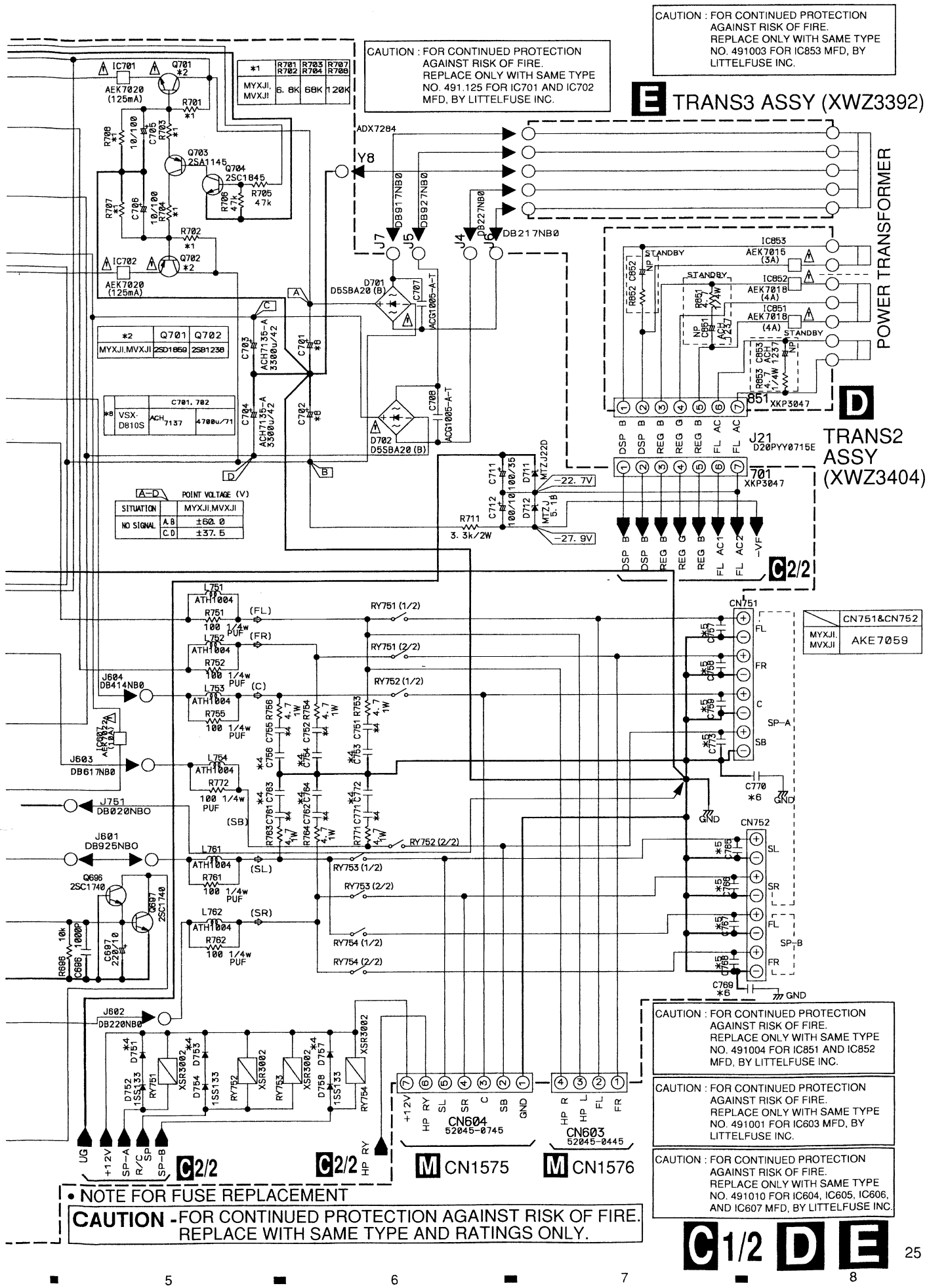


: The power supply is shown with the marked box.



3.9 AMP&PRIMARY (1/2), TRANS2 and TRANS3 ASSYS

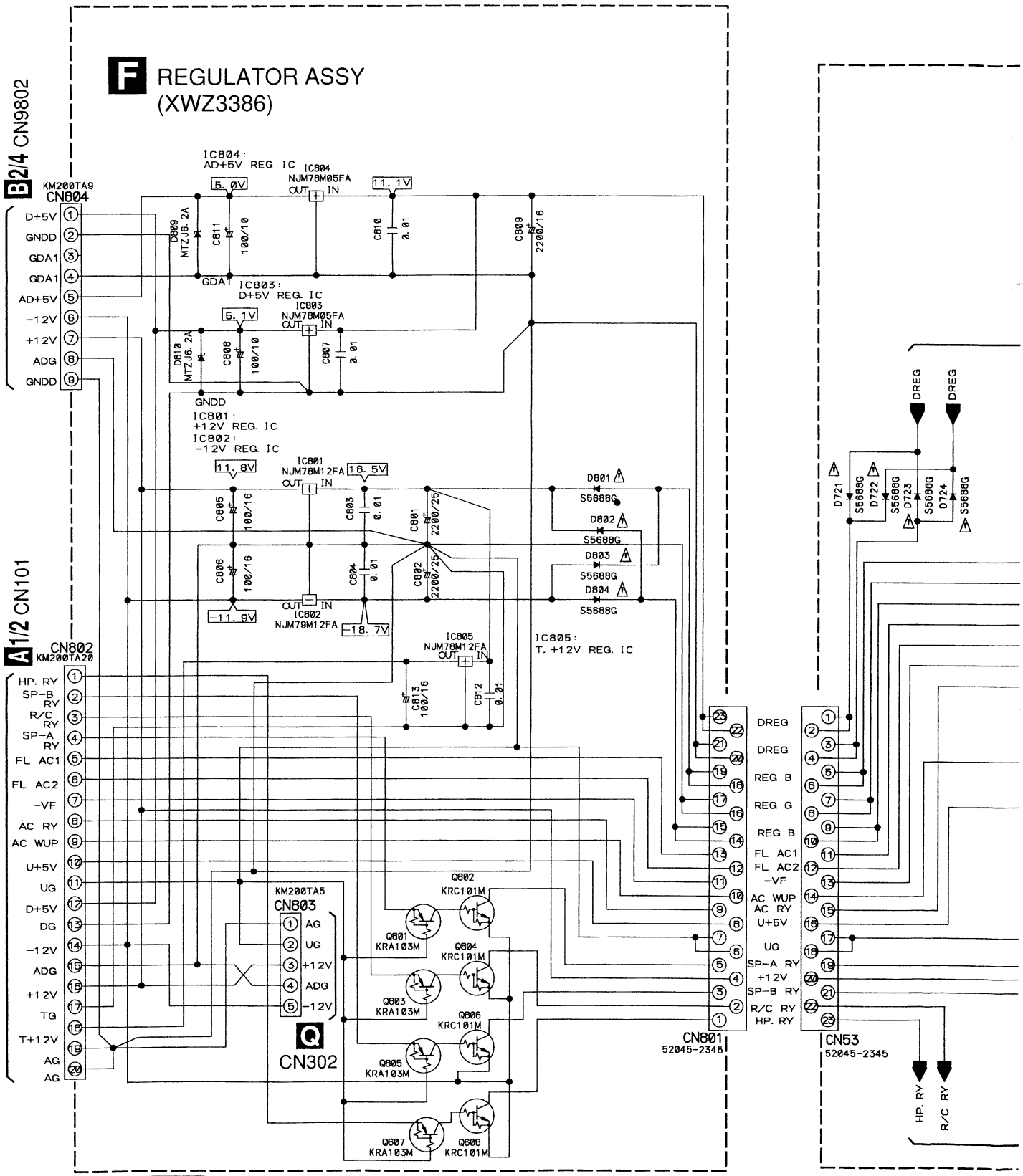


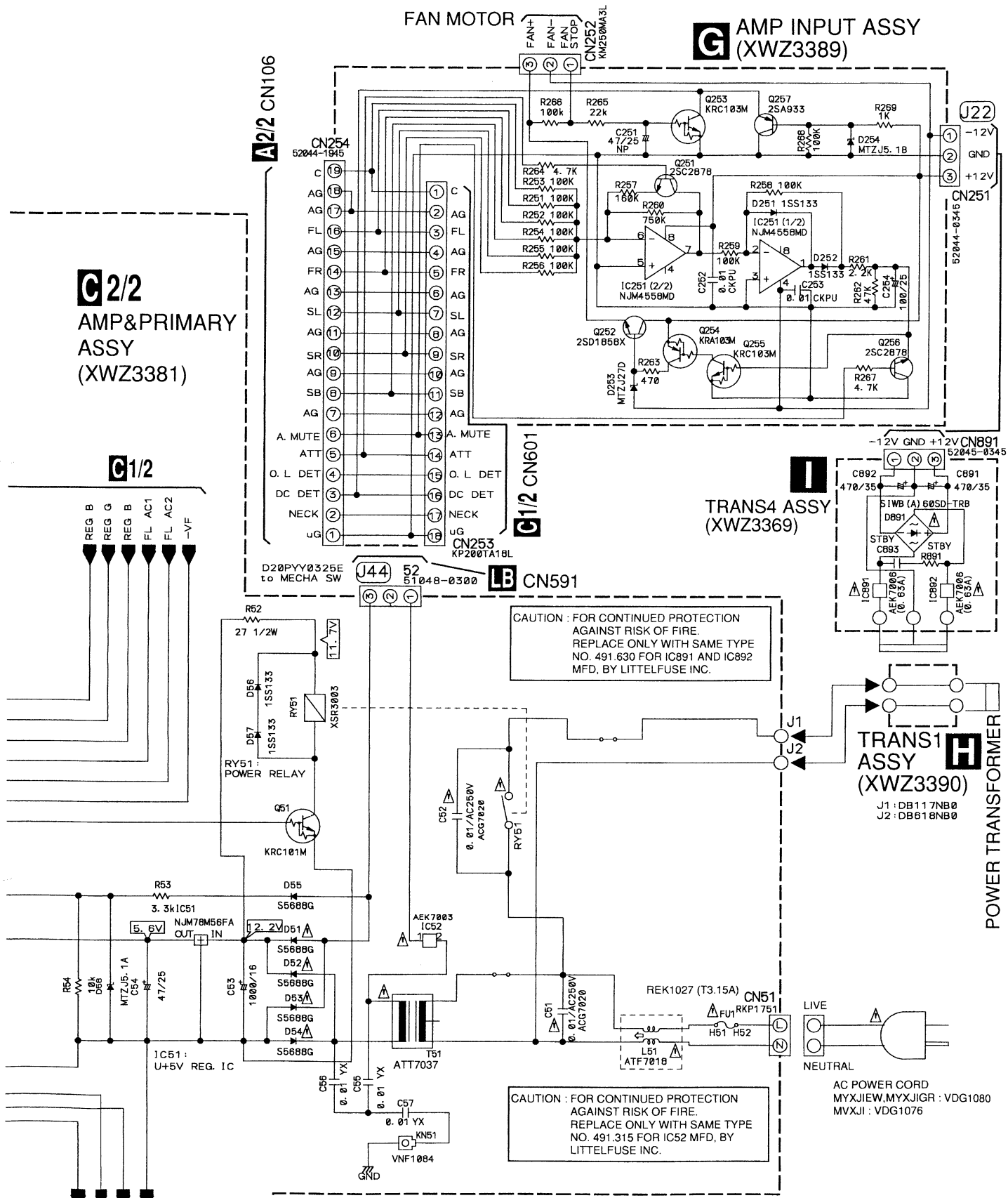

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491003 FOR IC853 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.125 FOR IC701 AND IC702 MFD, BY LITTELFUSE INC.
E TRANS3 ASSY (XWZ3392)
POWER TRANSFORMER
D TRANS2 ASSY (XWZ3404)
C2/2
CN751&CN752
MYXJI, MVXJI AKE7059
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491004 FOR IC851 AND IC852 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC603 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010 FOR IC604, IC605, IC606, AND IC607 MFD, BY LITTELFUSE INC.
M CN1575
M CN1576
C1/2 D E

• NOTE FOR FUSE REPLACEMENT

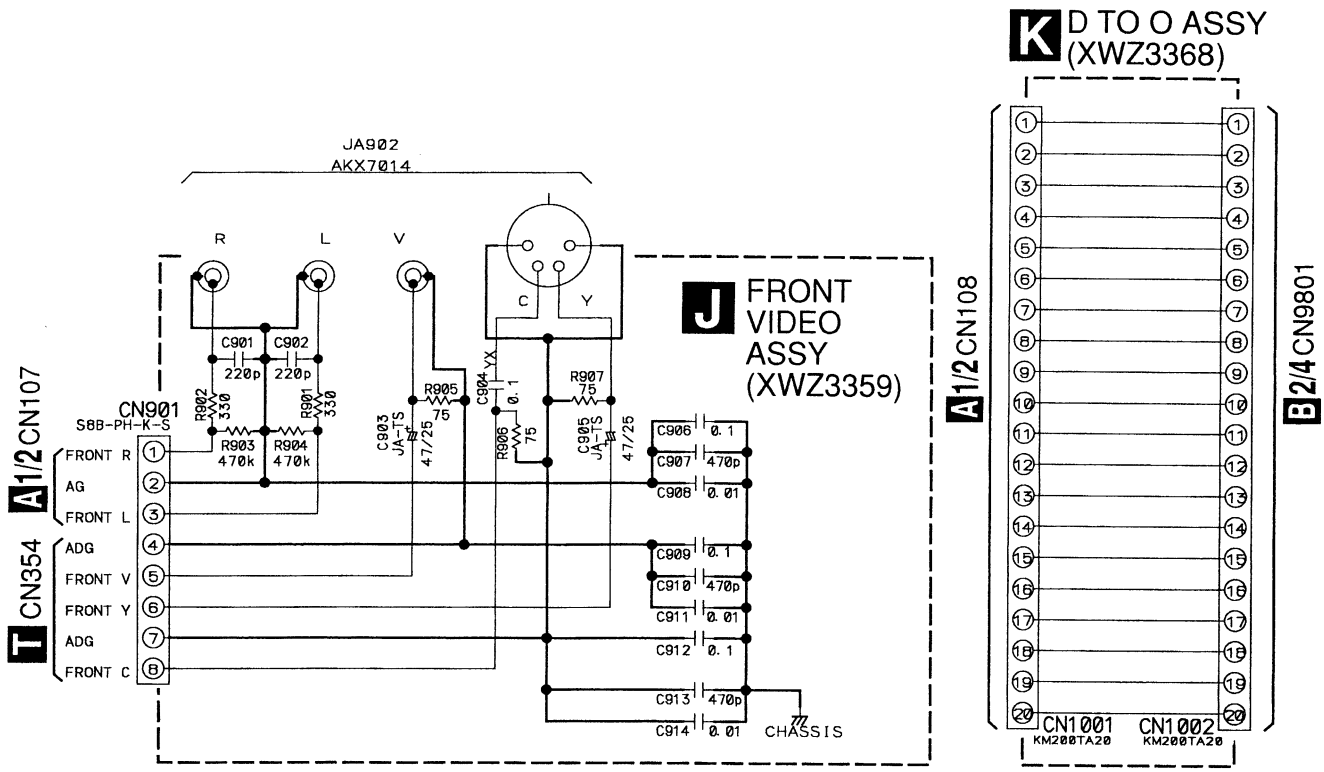
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

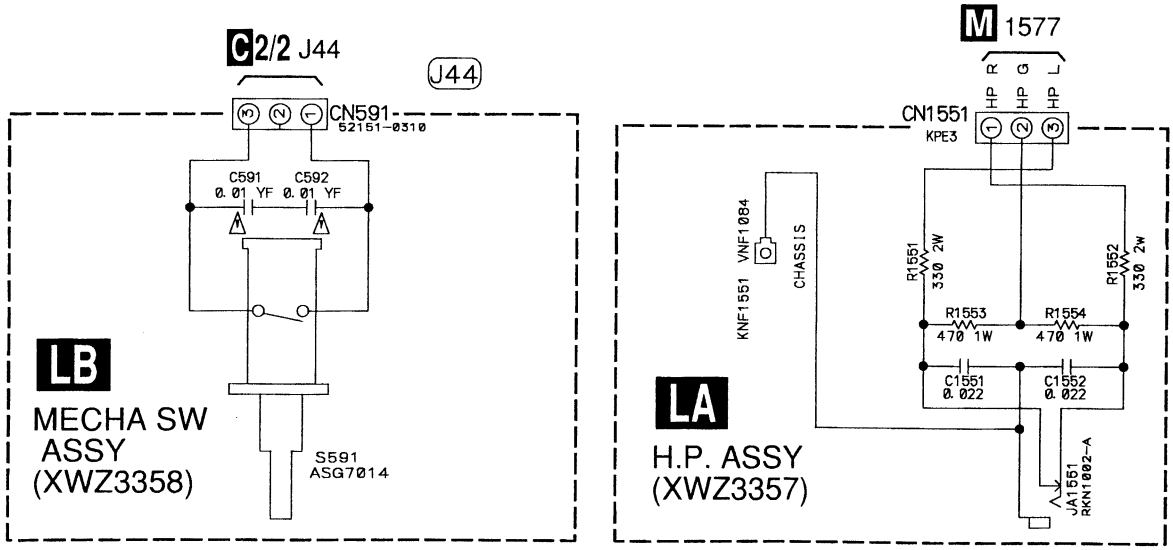
3.10 AMP&PRIMARY (2/2), REGULATOR, AMP INPUT, TRANS1 and TRANS4 ASSYS

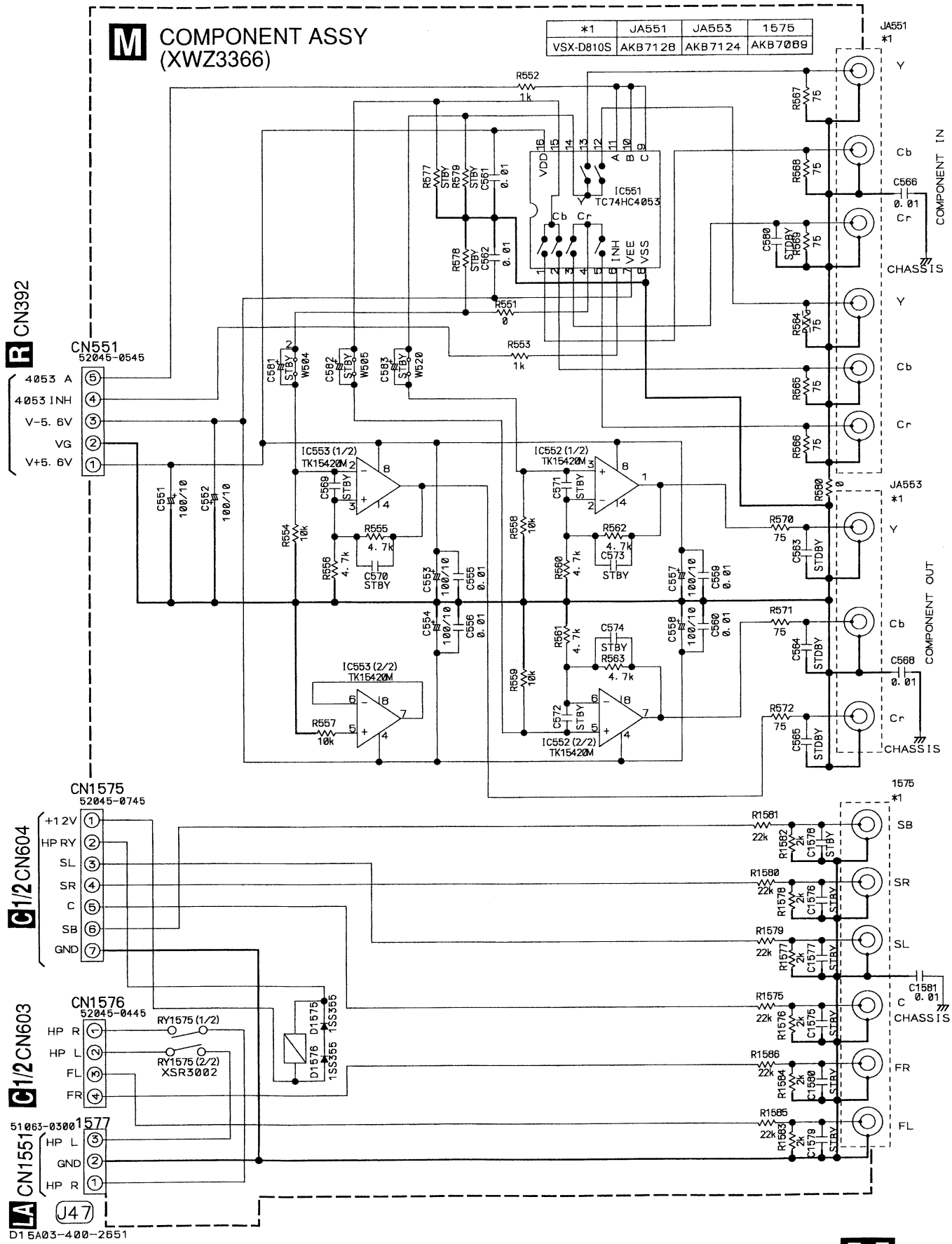



FAN MOTOR
FAN+
FAN-
FAN STOP
CN252
KM290MA3L
G AMP INPUT ASSY
(XWZ3389)
A2/2 CN106
CN254
52044-1945
C 2/2
AMP&PRIMARY
ASSY
(XWZ3381)
C1/2 CN601
CN253
KP200TA18L
J22
-12V
GND
+12V
CN251
52044-0345
Q253 KRC103M
Q257 2SA933
Q251 2SC2878
Q252 2SD1858X
Q254 KRA103M
Q255 KRC103M
Q256 2SC2878
IC251 (1/2) NJM4558MD
IC251 (2/2) NJM4558MD
D254 MTZJ5.1B
D251 1SS133
D252 1SS133
D253 MTZJ27D
-12V GND +12V CN891
52045-0345
I
TRANS4 ASSY
(XWZ3369)
SIWB(A)60SD-TRB
D891
C892 470/35
C891 470/35
IC891 AEK7006 (0.63A)
IC892 AEK7006 (0.63A)
C1/2
REG B
REG G
REG B
FL AC1
FL AC2
-VF
D20PYY0325E
to MECHA SW
J44
51048-0300
LB CN591
R52 27 1/2W
11.7V
D56 1SS133
D57 1SS133
RY51
XSR3003
RY51 :
POWER RELAY
Q51
KRC101M
CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.630 FOR IC891 AND IC892
MFD, BY LITTELFUSE INC.
J1
J2
TRANS1
ASSY
(XWZ3390)
H
J1 : DB117NB0
J2 : DB618NB0
POWER TRANSFORMER
C52 0.01/AC250V ACG7020
RY51
R53 3.3kIC51
D55 S5688G
5.6V
NJM78M56FA
OUT
IN
12.2V
D51 S5688G
D52 S5688G
D53 S5688G
D54 S5688G
R54 10k
MTZJ5.1A C54 47/25
C53 1000/16
IC51 :
U+5V REG. IC
AEK7003
IC52
T51
ATT7037
C51 0.01/AC250V ACG7020
REK1027 (T3.15A)
CN51
FU1
RKP1751
H51 H52
L51
ATF7018
LIVE
NEUTRAL
AC POWER CORD
MYXJIEW,MYXJIGR : VDG1080
MVXJI : VDG1076
C56 0.01 YX
C55 0.01 YX
C57 0.01 YX
KN51
VNF1084
GND
CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.315 FOR IC52 MFD, BY
LITTELFUSE INC.
SP-B RY
SP-A RY
+12V
UG
C1/2
• NOTE FOR FUSE REPLACEMENT
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

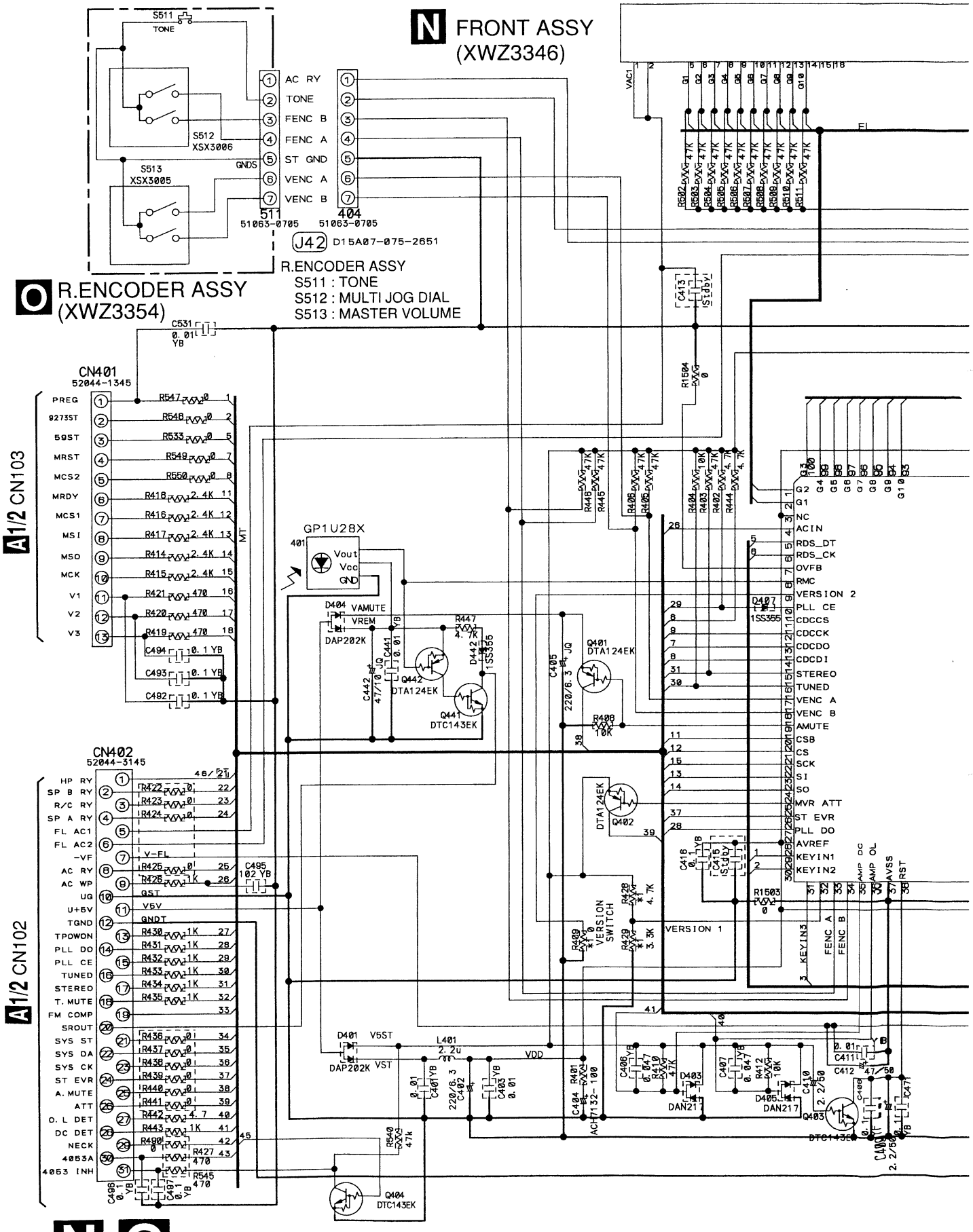
3.11 FRONT VIDEO, D TO O, H. P., MECHA SW and COMPONENT ASSYS

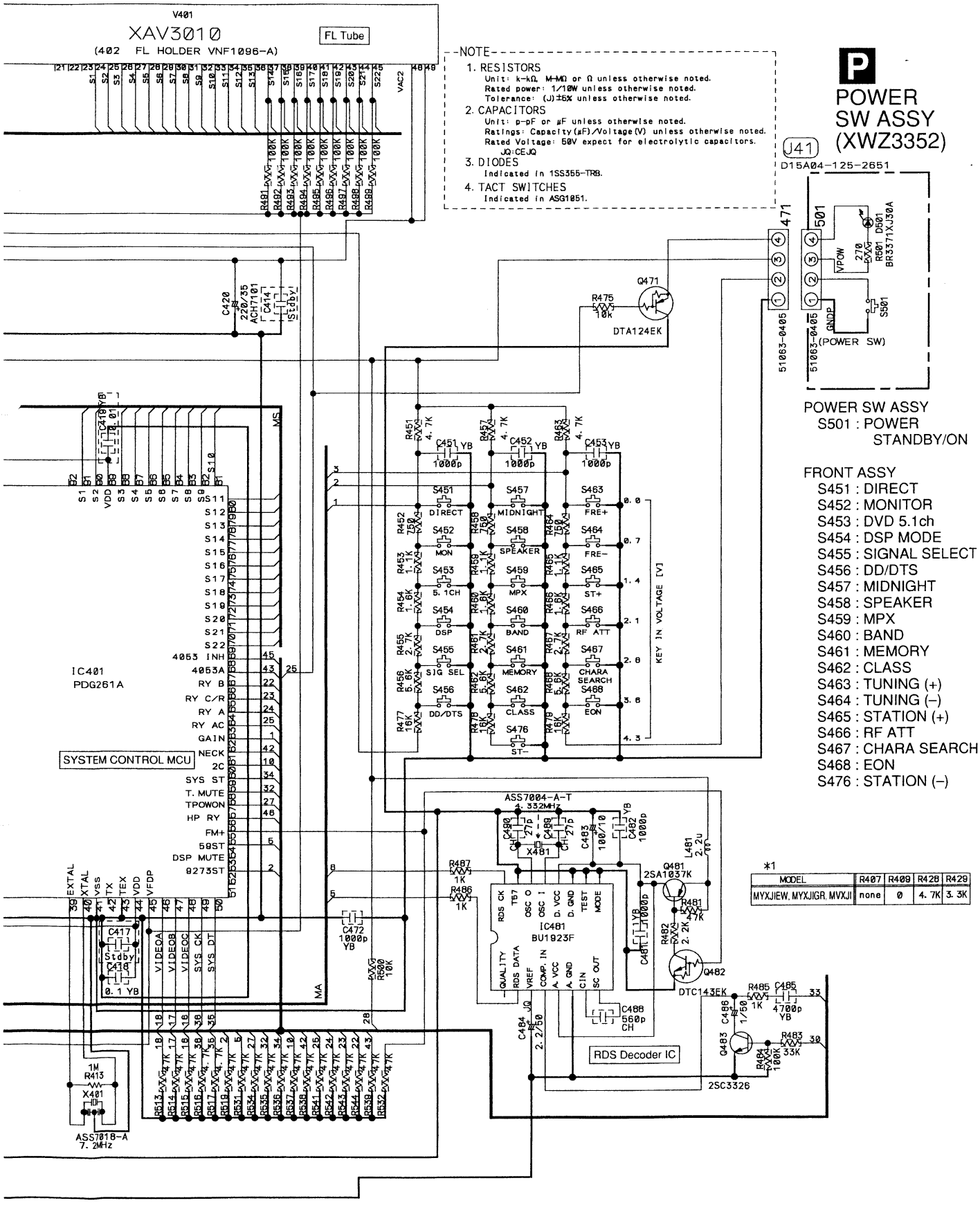




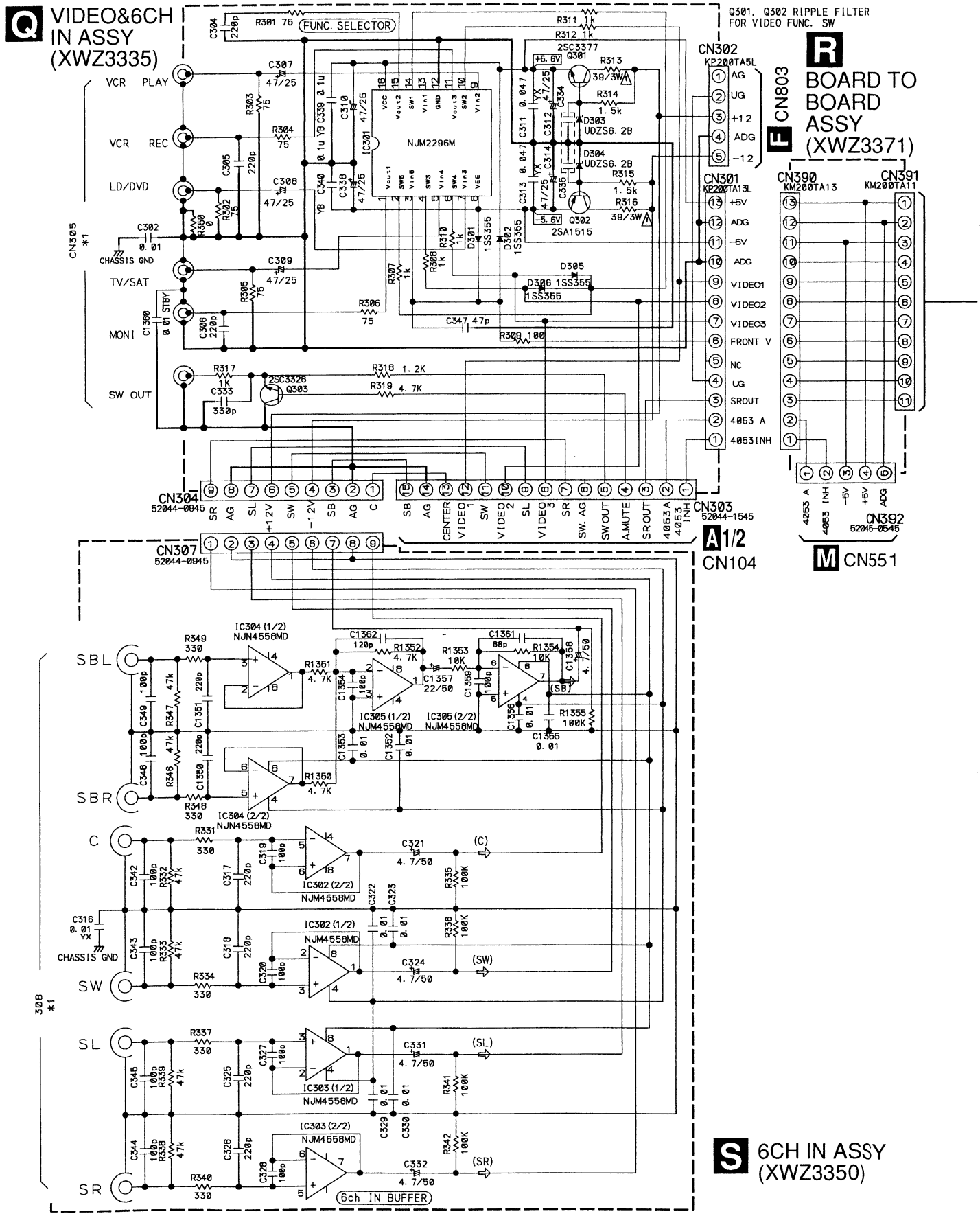

M COMPONENT ASSY
(XWZ3366)
*1 | JA551 | JA553 | 1575
VSX-D810S | AKB7128 | AKB7124 | AKB7089
R CN392
CN551
52045-0545
4053 A
4053 INH
V-5. 6V
VG
V+5. 6V
IC551
TC74HC4053
IC553 (1/2)
TK15420M
IC552 (1/2)
TK15420M
IC553 (2/2)
TK15420M
IC552 (2/2)
TK15420M
JA551
*1
JA553
*1
COMPONENT IN
COMPONENT OUT
CHASSIS
C1/2 CN604
CN1575
52045-0745
+12V
HP RY
SL
SR
C
SB
GND
1575
*1
SB
SR
SL
C
FR
FL
C1/2 CN603
CN1576
52045-0445
HP R
HP L
FL
FR
RY1575 (1/2)
RY1575 (2/2)
XSR3002
D1575
D1576
1SS355
LA CN1551
51063-0300
1577
HP L
GND
HP R
J47
D15A03-400-2651

3.12 FRONT, R. ENCODER and POWER SW ASSYS




V401
XAV3010
(402 FL HOLDER VNF1096-A)
FL Tube
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JQ:CEJQ
3. DIODES
Indicated in 1SS355-TRB.
4. TACT SWITCHES
Indicated in ASG1051.
P
POWER
SW ASSY
(XWZ3352)
J41
D15A04-125-2651
51063-0405
(POWER SW)
POWER SW ASSY
S501 : POWER
STANDBY/ON
FRONT ASSY
S451 : DIRECT
S452 : MONITOR
S453 : DVD 5.1ch
S454 : DSP MODE
S455 : SIGNAL SELECT
S456 : DD/DTS
S457 : MIDNIGHT
S458 : SPEAKER
S459 : MPX
S460 : BAND
S461 : MEMORY
S462 : CLASS
S463 : TUNING (+)
S464 : TUNING (–)
S465 : STATION (+)
S466 : RF ATT
S467 : CHARA SEARCH
S468 : EON
S476 : STATION (–)
IC401
PDG261A
SYSTEM CONTROL MCU
IC481
BU1923F
RDS Decoder IC
ASS7004-A-T
4.332MHz
ASS7018-A
7.2MHz
2SA1037K
DTC143EK
2SC3326
DTA124EK
*1
MODEL | R407 | R409 | R428 | R429
MYXJIEW, MYXJIGR, MVXJI | none | 0 | 4.7K | 3.3K

3.13 VIDEO&6CH IN, BOARD TO BOARD, 6CH IN and S. VIDEO ASSYS



NJM2296D control port status

SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

VIN 2. VCR
VIN 3. DVD/LD
VIN 4. TV/SAT
VIN 5. FRONT

Vout1. MON out
Vout2. MR out
Vout3. VCR out

NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/10W unless otherwise noted.
   Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
   Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
   Indicated in 1SS355-TRB

J CN901

CN354 B5B-PH-K-S: ADG, FRONT V, FRONT Y, ADG, FRONT C

CN351 KP200TA11L: SROUT, UG, +5V, ADG, -5V, ADG, VIDEO1, VIDEO2, VIDEO3, FRONT V, ADG

T S. VIDEO ASSY (XWZ3363)

+5.6V, -5.6V

IC352 NJM2296M, IC351 NJM2296M

S-Y FUNC. SELECTOR, S-C FUNC. SELECTOR

SR OUT → JA351 RKN1004

JA352 (1/3) *1 MON OUT

JA352 (2/3) *1 VCR OUT

LD/DVD CN353 (1/2) *1

TV/SAT CN353 (2/2) *1

VCR1 JA352 (3/3) *1

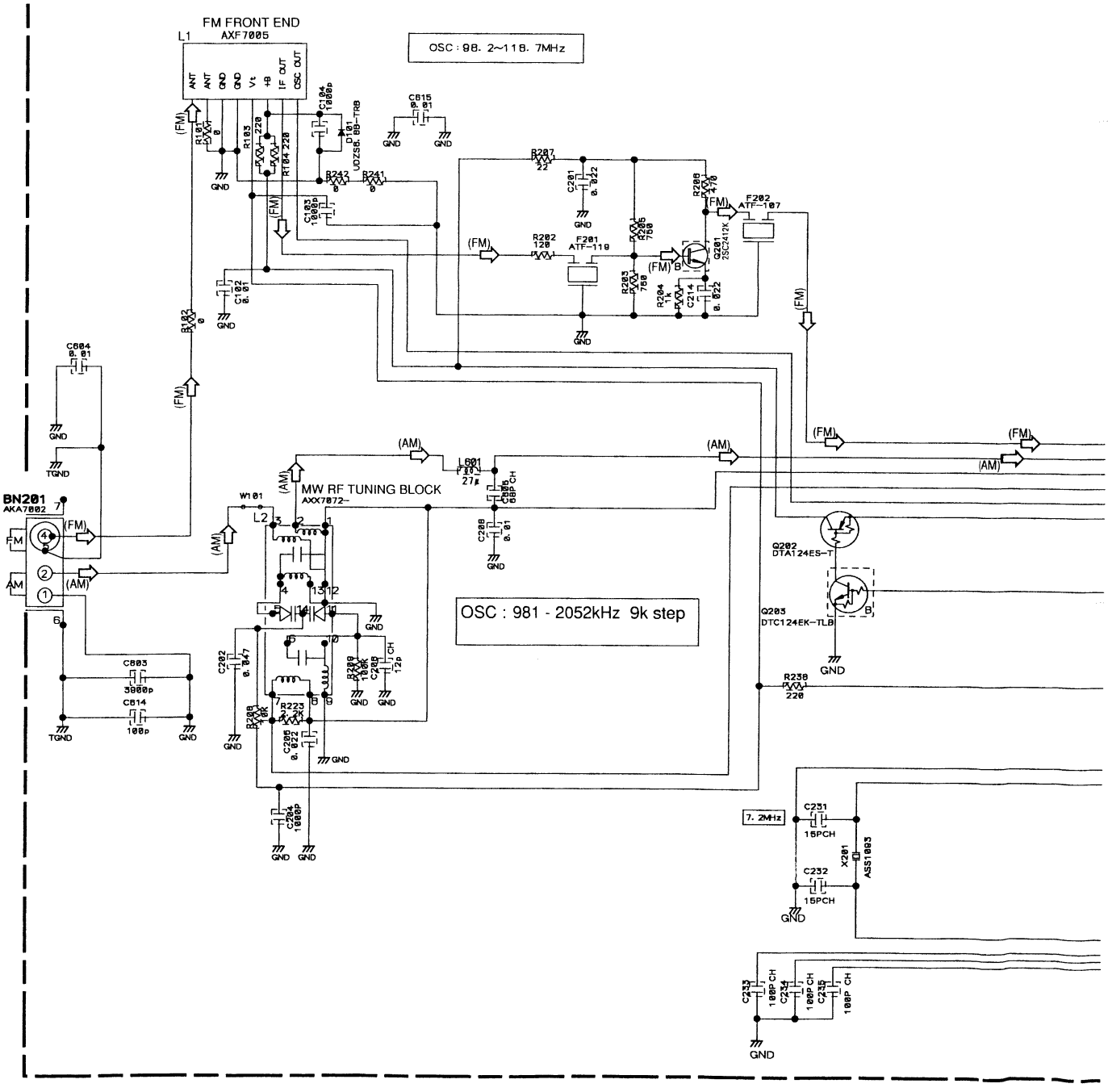
CHASSIS GND

*1	CN305	308	JA352	CN353
VSX-D810S	AKB7123	AKB7089	XKP3045	XKP3044

→VIDEO SIGNAL FLOW
⇨AUDIO SIGNAL FLOW

3.14 FM/AM TUNER MODULE

U FM/AM TUNER MODULE (AXQ7232)

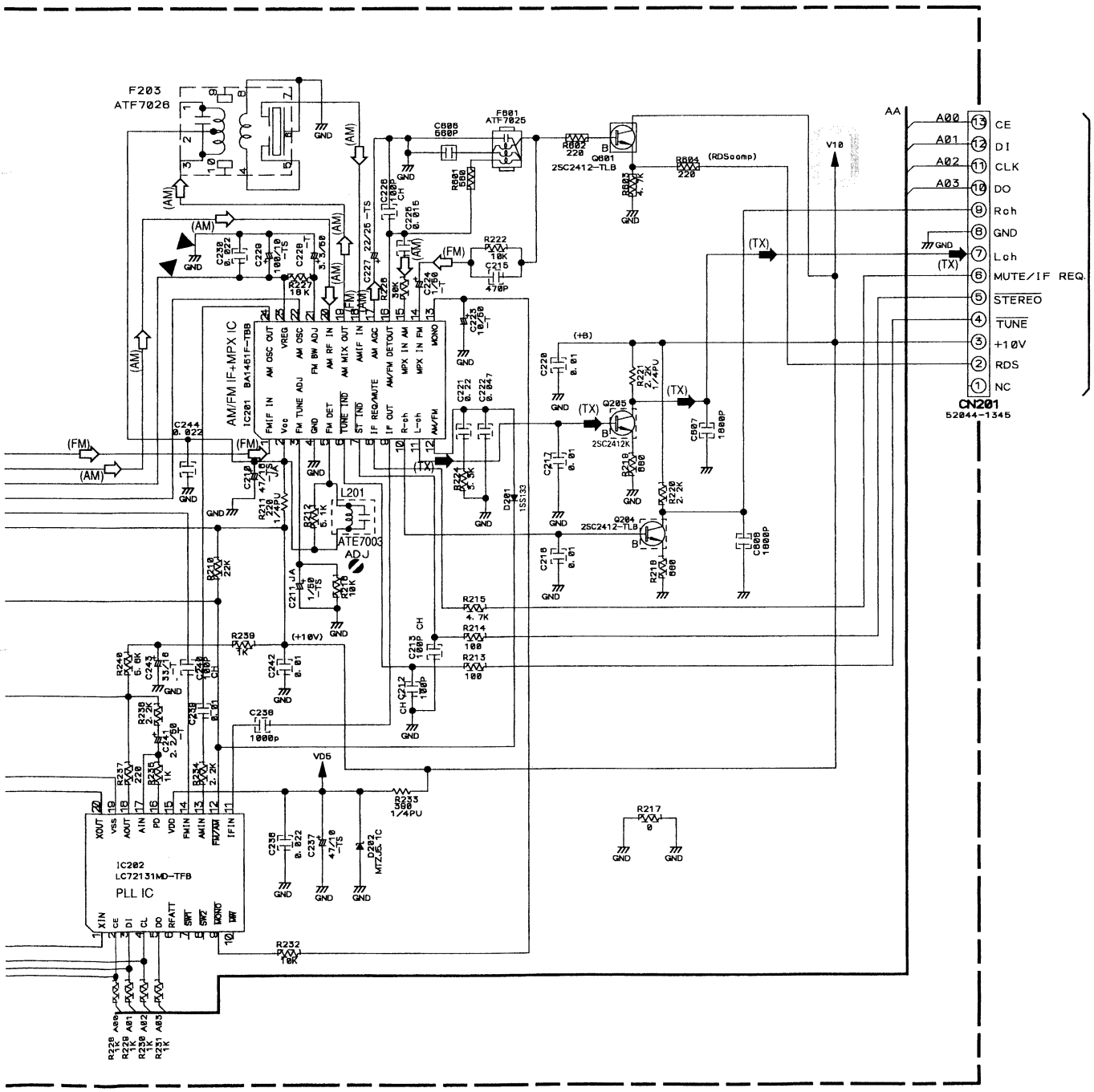


Notes

1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.
2. CAPACITORS
   Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.
3. DIODES
   No mark diode is 1SS133.

: The power supply is shown with the marked box.

(TX) : AUDIO SIGNAL ROUTE (TUNER)
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE



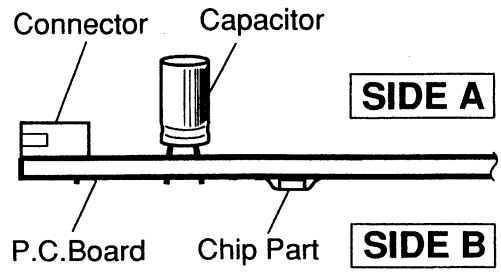
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

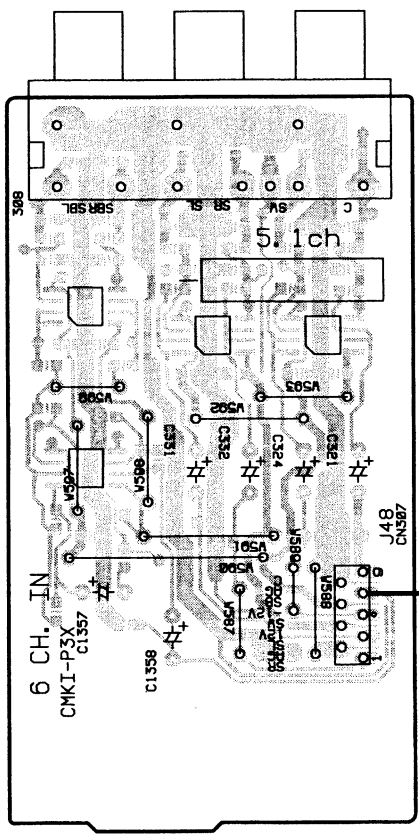
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 6CH IN ASSY

S 6CH IN ASSY

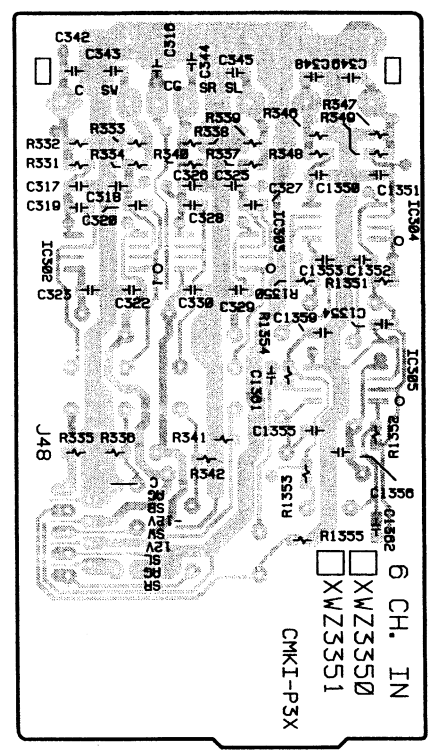


Q CN304

(XNP3032-B)

SIDE A

S 6CH IN ASSY

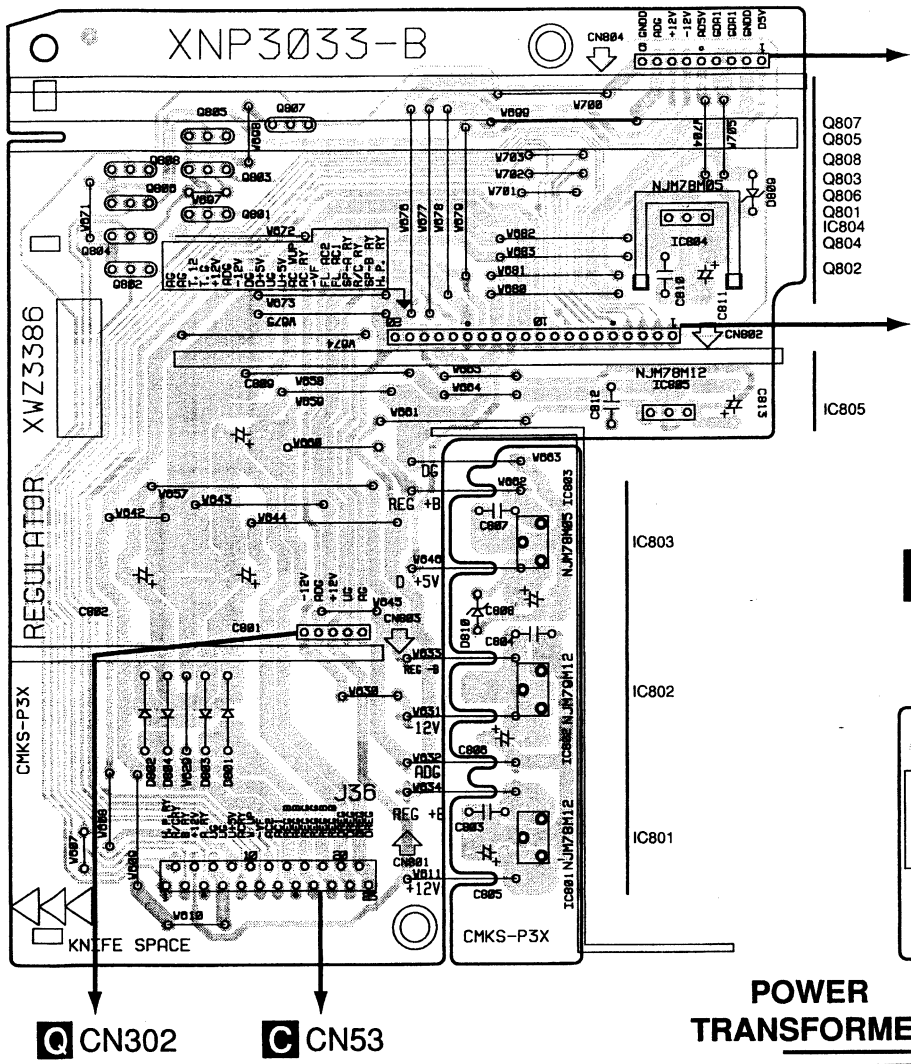


(XNP3032-B)

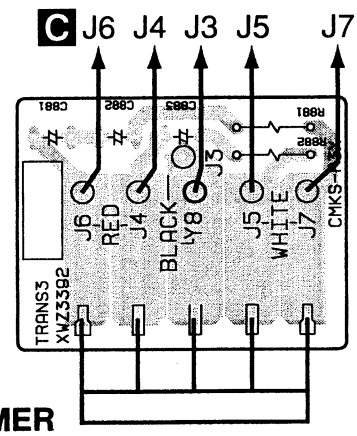
SIDE B

4.2 TRANS2, TRANS3, REGULATOR, TRANS1 and TRANS4 ASSYS

F REGULATOR ASSY

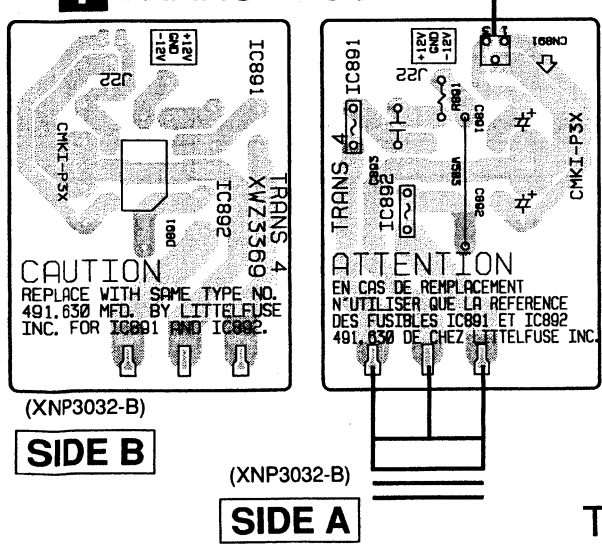


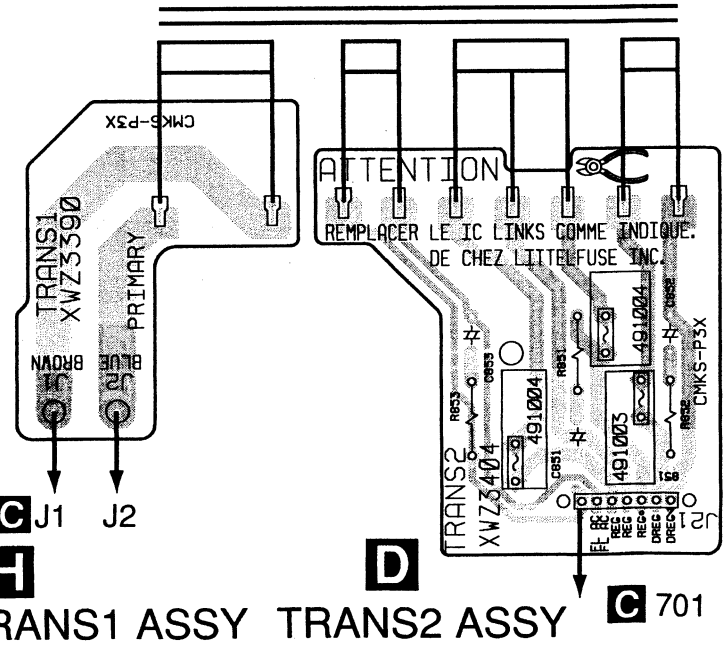
E TRANS3 ASSY



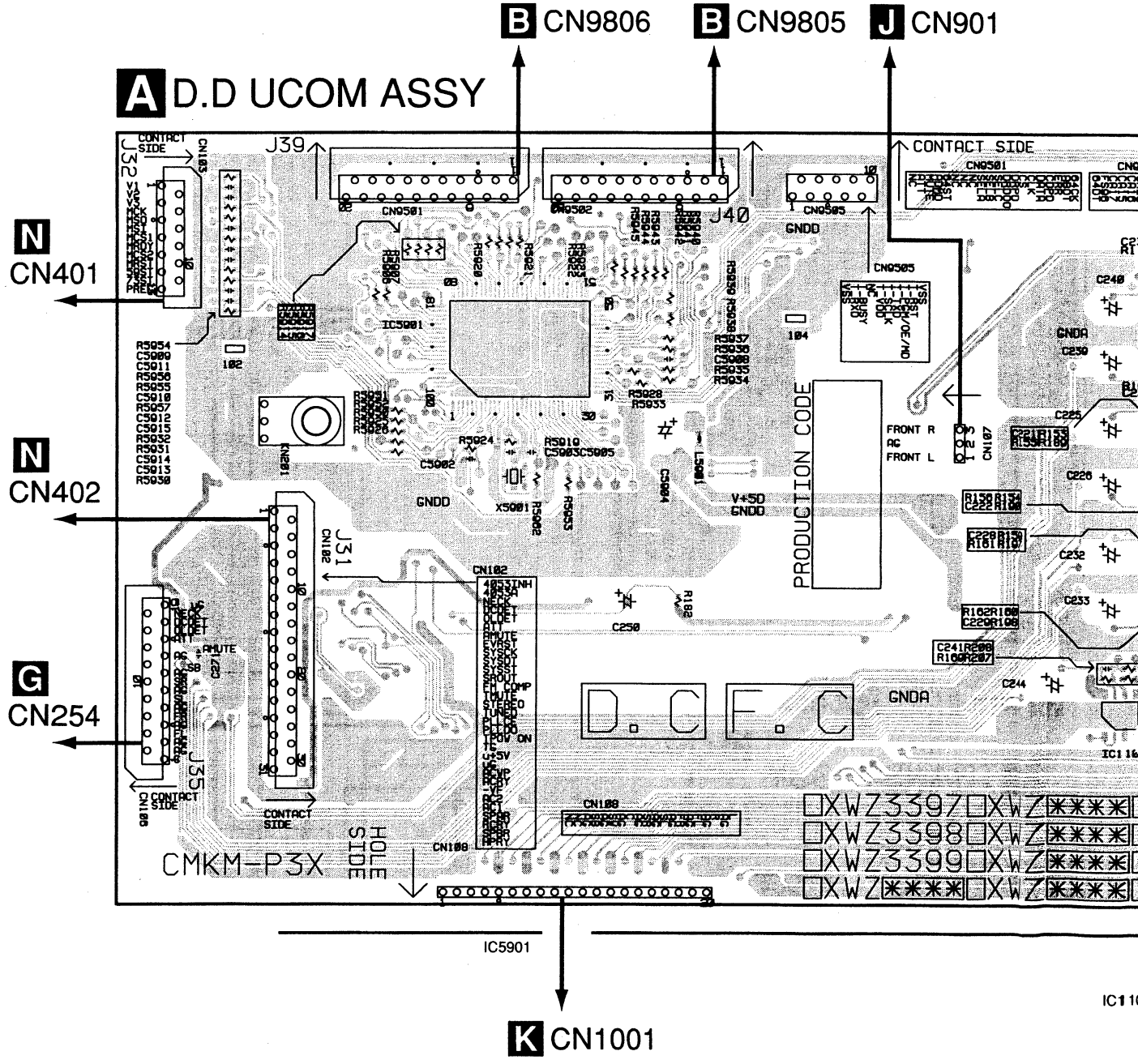
POWER TRANSFORMER

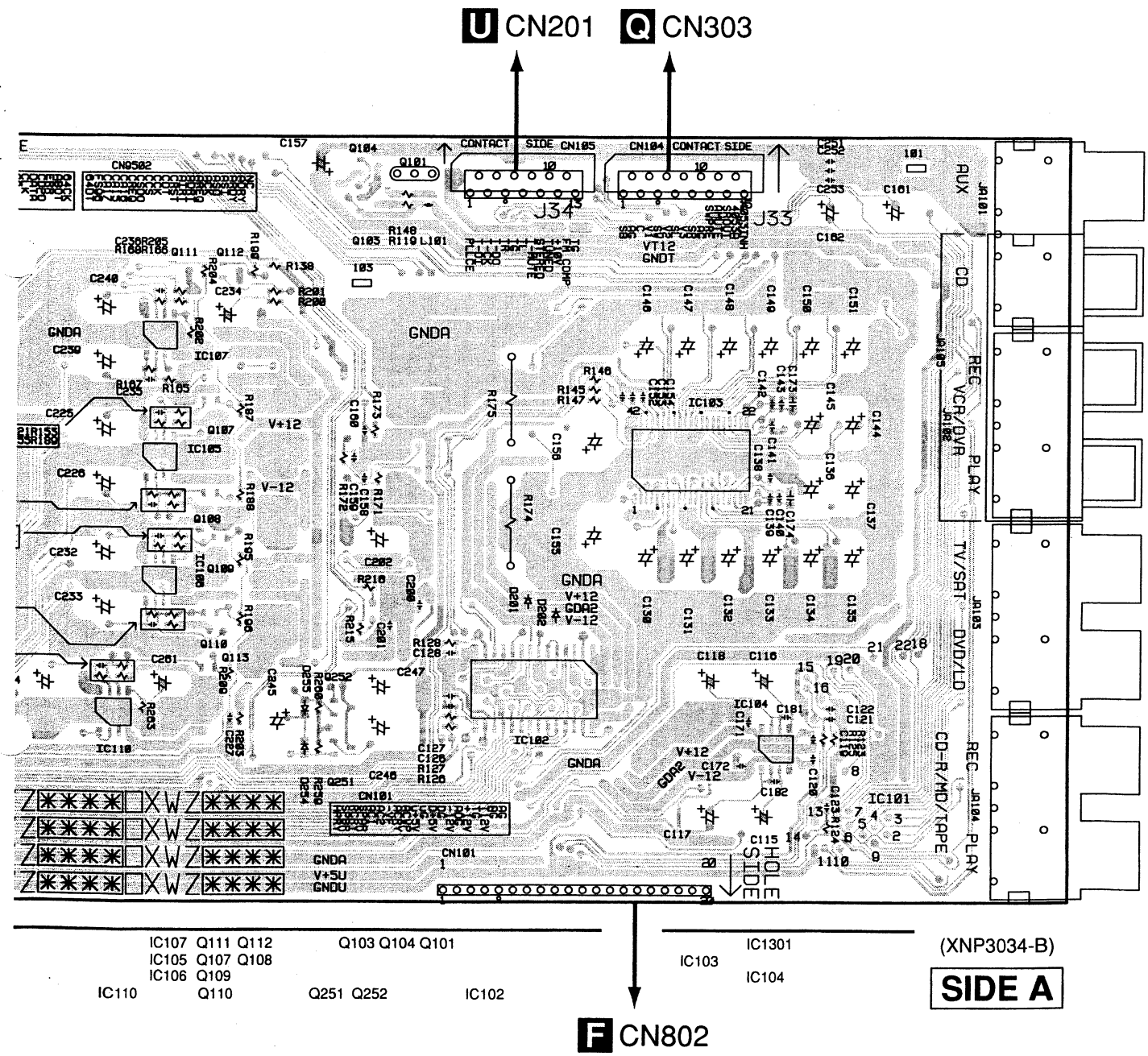
I TRANS4 ASSY



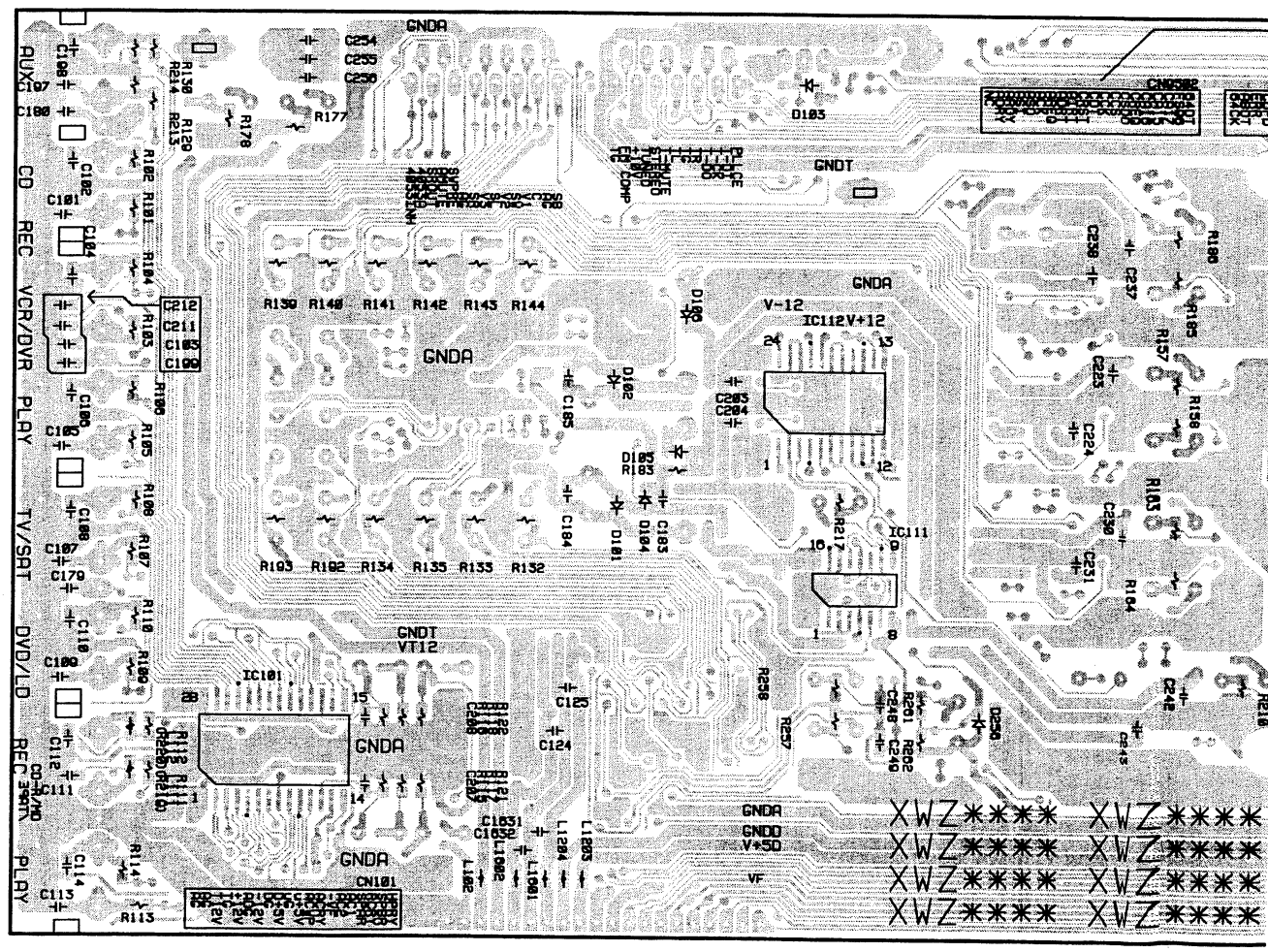


4.3 D.D UCOM ASSY

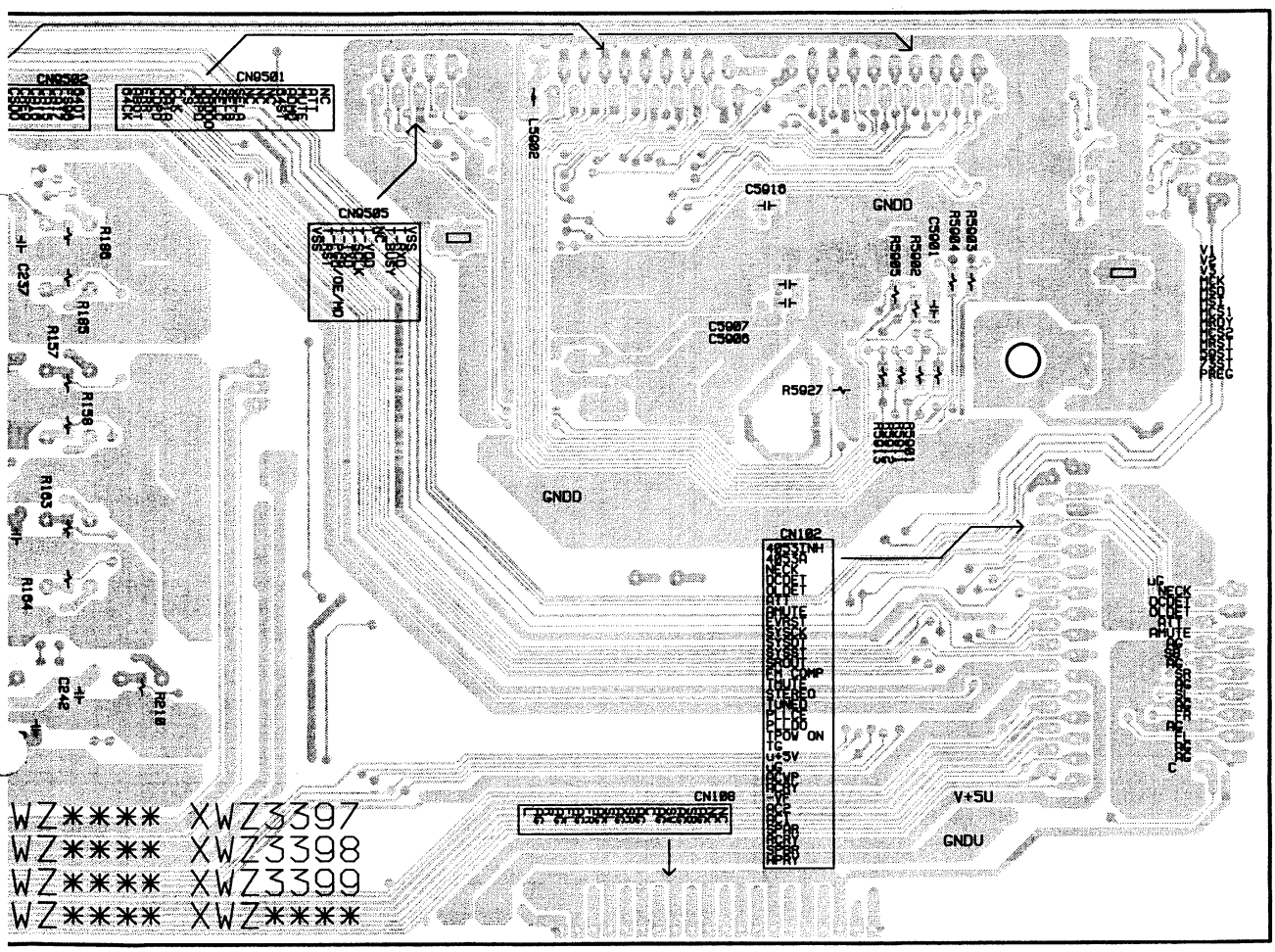



U CN201
Q CN303
CONTACT SIDE CN105
CN104 CONTACT SIDE
J34
J33
AUX
CD
REC
VCR/DVR
PLAY
TV/SAT
DVD/LD
CD-R/MD/TAPE
REC
PLAY
GNDA
V+12
V-12
GDA2
V+5U
GNDU
HOLE SIDE
IC107 Q111 Q112
IC105 Q107 Q108
IC106 Q109
IC110 Q110
Q103 Q104 Q101
Q251 Q252
IC102
IC103
IC1301
IC104
(XNP3034-B)
SIDE A
F CN802

A D.D UCOM ASSY



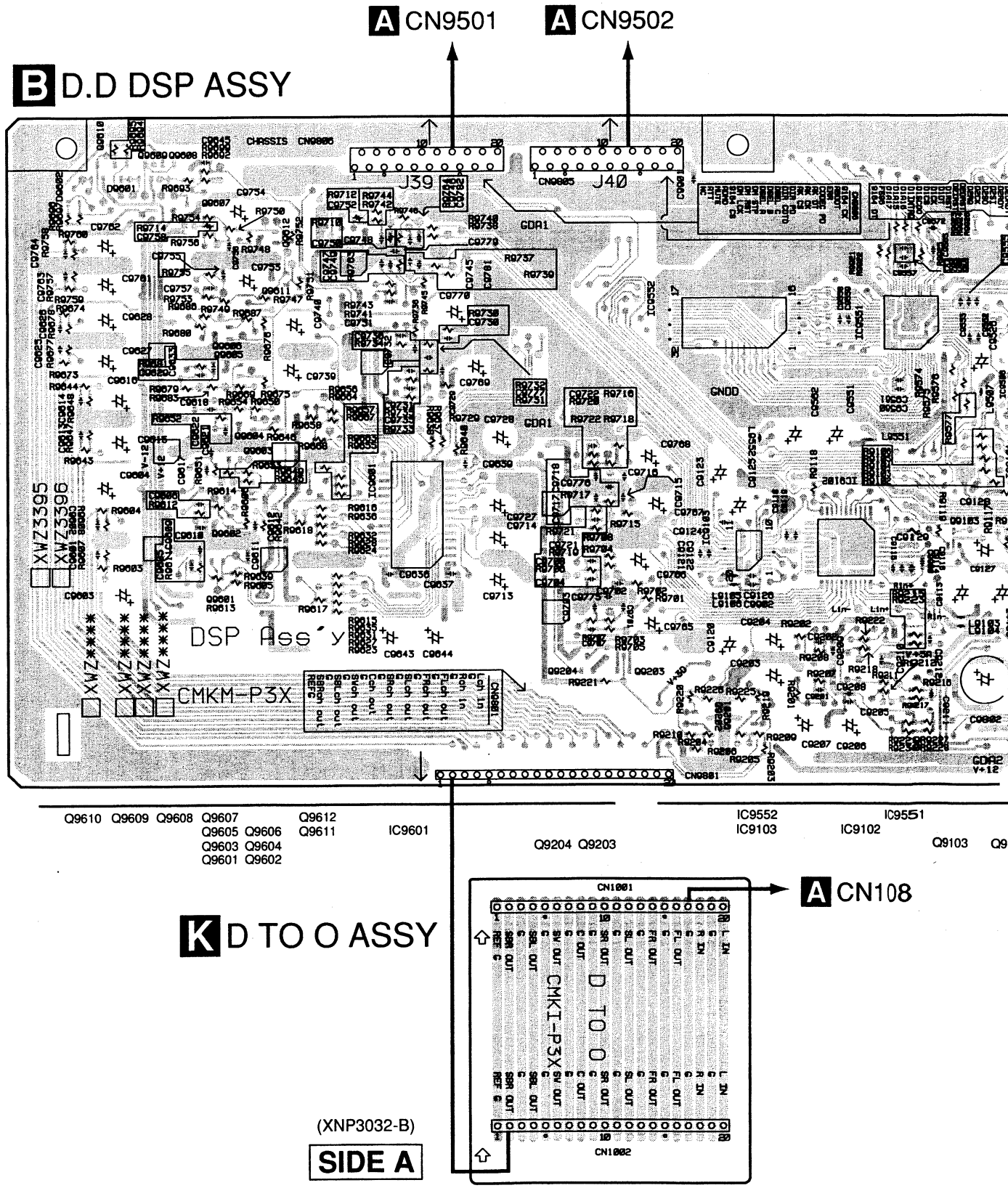
IC101 IC112 IC111

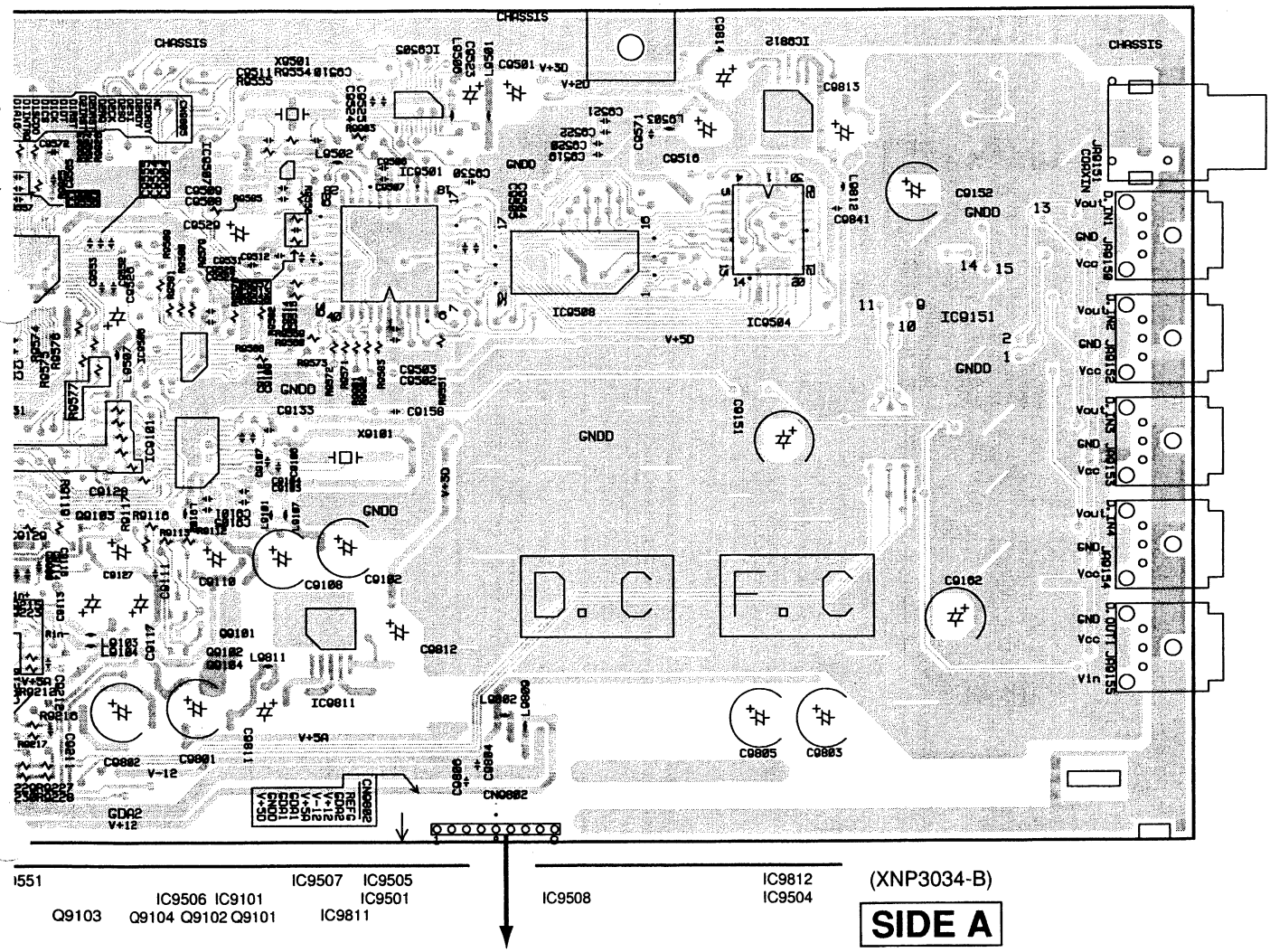


(XNP3034-B)

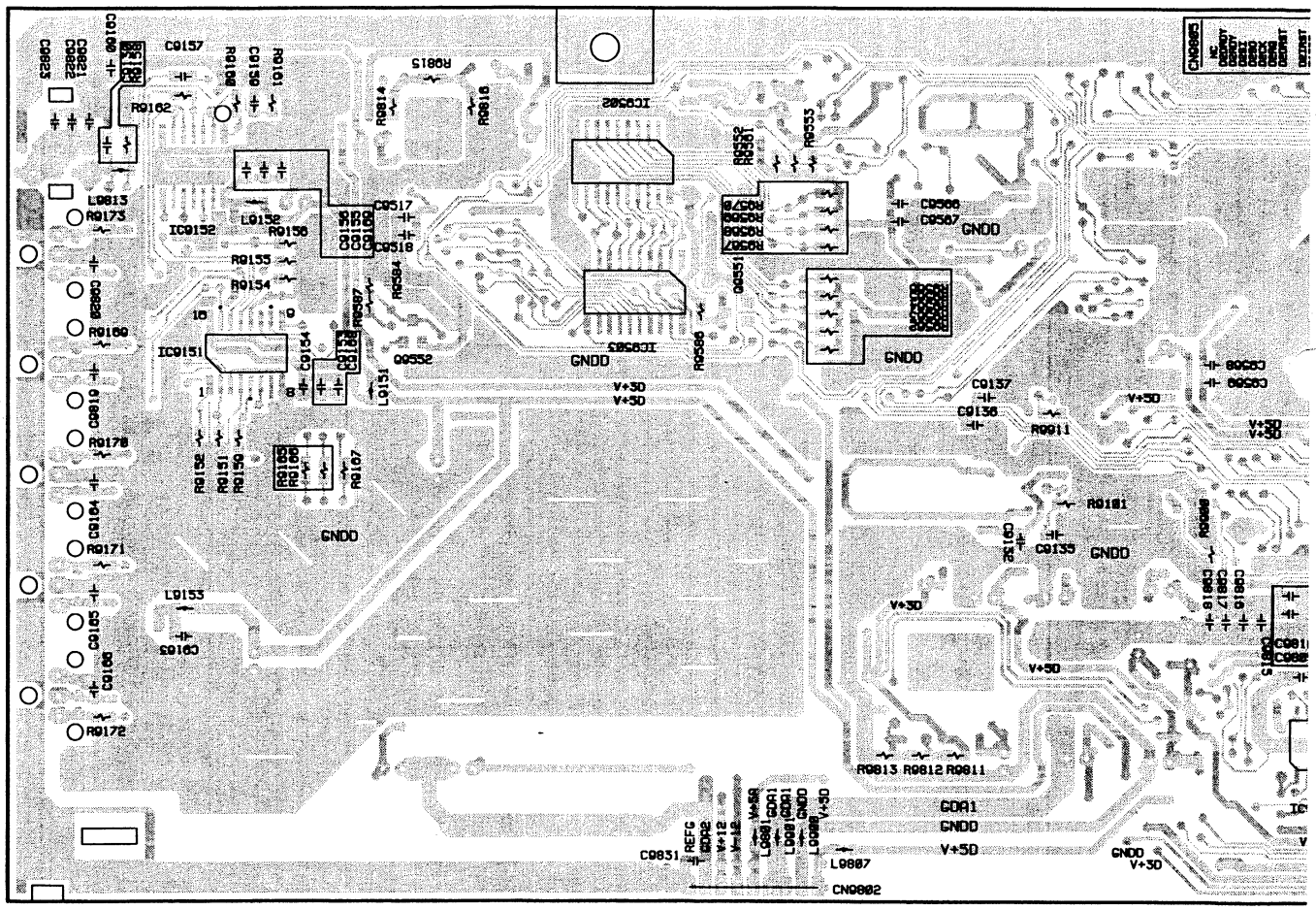
SIDE B

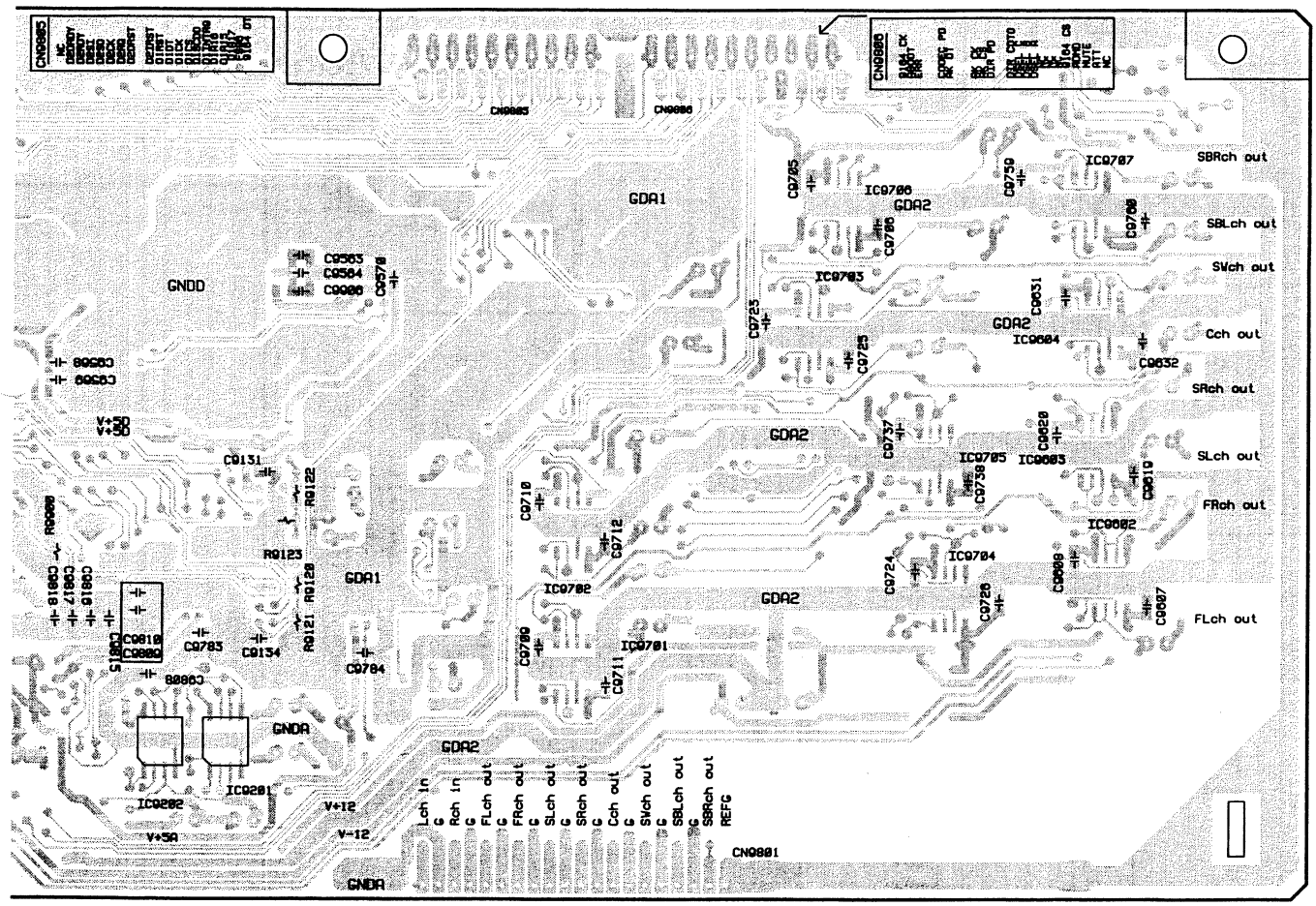
4.4 D.D DSP and D TO O ASSYS




CHASSIS
GNDD
V+5D
V+12
V-12
V+5A
IC9508
IC9504
IC9151
IC9507
IC9505
IC9501
IC9506
IC9101
IC9811
IC9812
Q9103
Q9104
Q9102
Q9101
(XNP3034-B)
SIDE A
8
F CN804

B D.D DSP ASSY



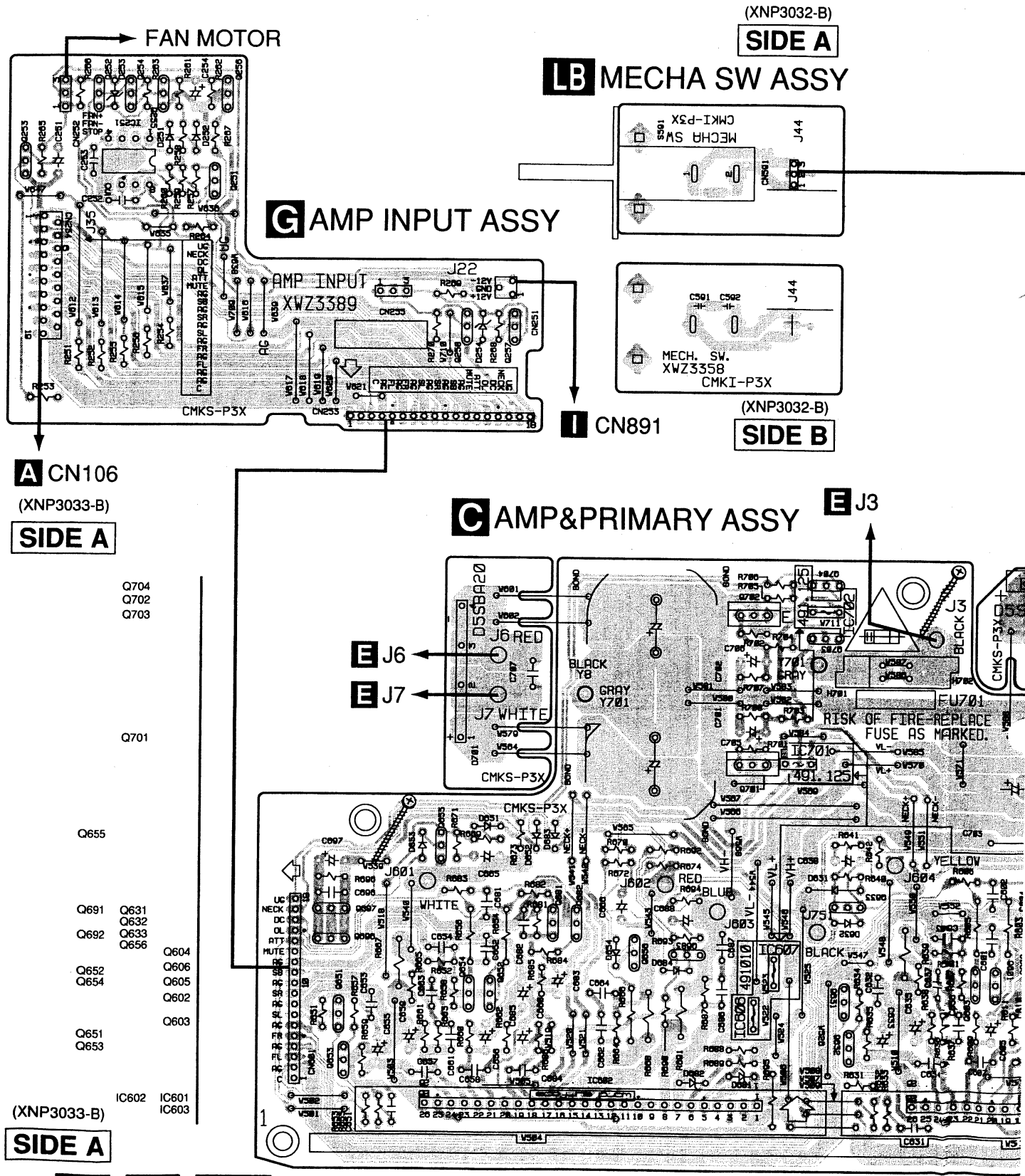


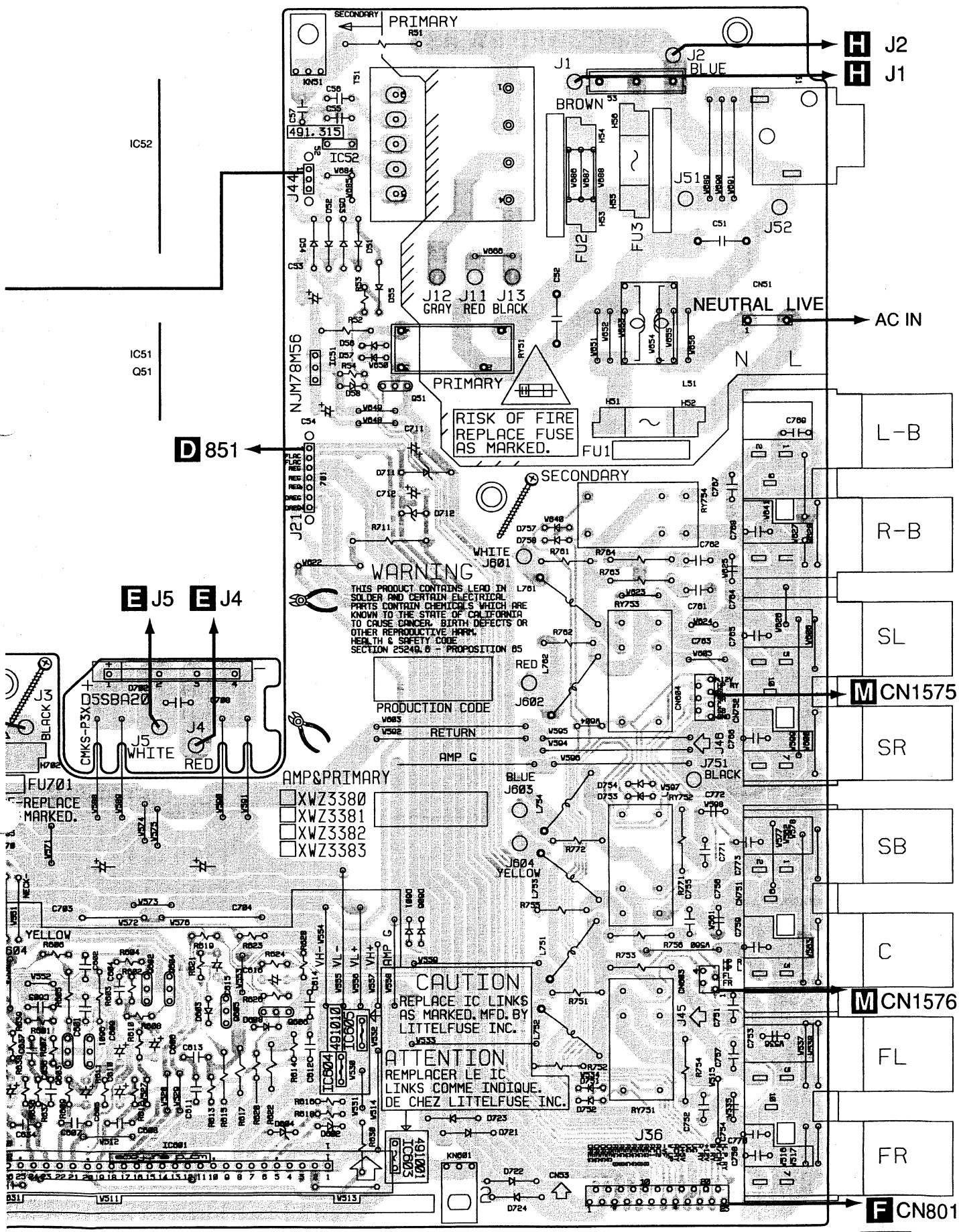
IC9202 IC9201 IC9701 IC9702 IC9703 IC9706 IC9704 IC9705 IC9707 IC9604 IC9603 IC9602

(XNP3034-B)

SIDE B

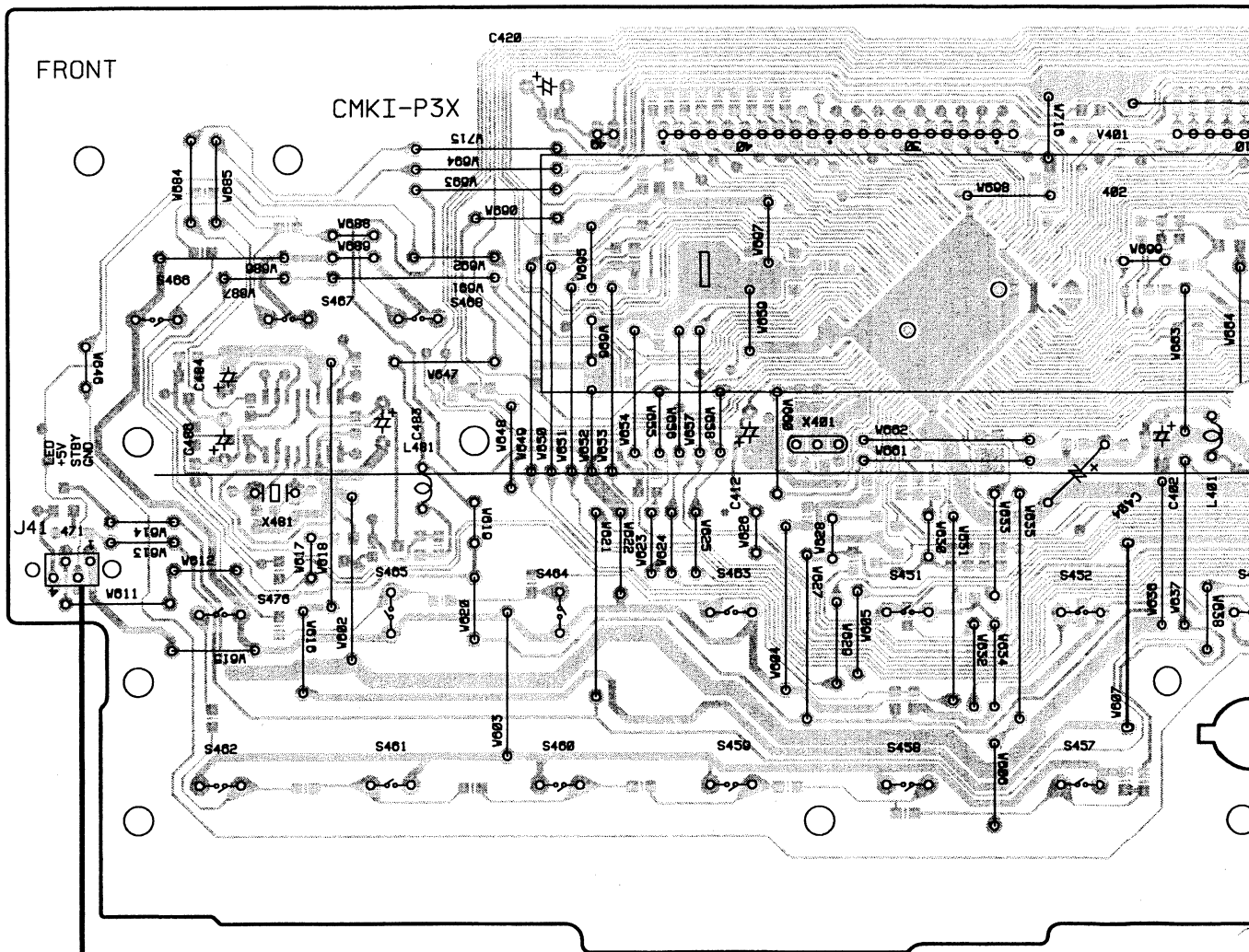
4.5 AMP INPUT, AMP&PRIMARY and MECHA SW ASSYS

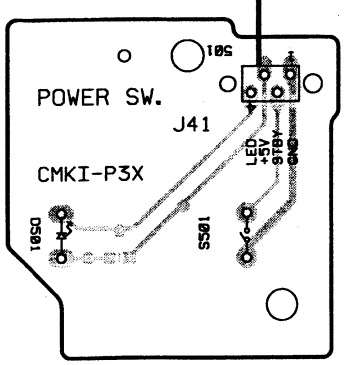



SECONDARY
PRIMARY
J1
J2
BLUE
BROWN
H J2
H J1
IC52
IC51
Q51
J44
J51
J52
FU2
FU3
J12 J11 J13
GRAY RED BLACK
NEUTRAL LIVE
AC IN
N L
NJM78M56
PRIMARY
RISK OF FIRE
REPLACE FUSE
AS MARKED.
FU1
D 851
J21
SECONDARY
WHITE
J601
WARNING
THIS PRODUCT CONTAINS LEAD IN SOLDER AND CERTAIN ELECTRICAL PARTS CONTAIN CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. HEALTH & SAFETY CODE SECTION 25249.6 - PROPOSITION 65
E J5 E J4
J3
BLACK
D5SBA20
CMKS-P3X
J5
WHITE
J4
RED
PRODUCTION CODE
RED
J602
RETURN
AMP G
J751
BLACK
J46
FU701
REPLACE MARKED.
AMP&PRIMARY
XWZ3380
XWZ3381
XWZ3382
XWZ3383
BLUE
J603
J604
YELLOW
CAUTION
REPLACE IC LINKS AS MARKED. MFD. BY LITTELFUSE INC.
ATTENTION
REMPLACER LE IC LINKS COMME INDIQUE. DE CHEZ LITTELFUSE INC.
J45
J36
CN53
KN801
M CN1575
M CN1576
F CN801
L-B
R-B
SL
SR
SB
C
FL
FR

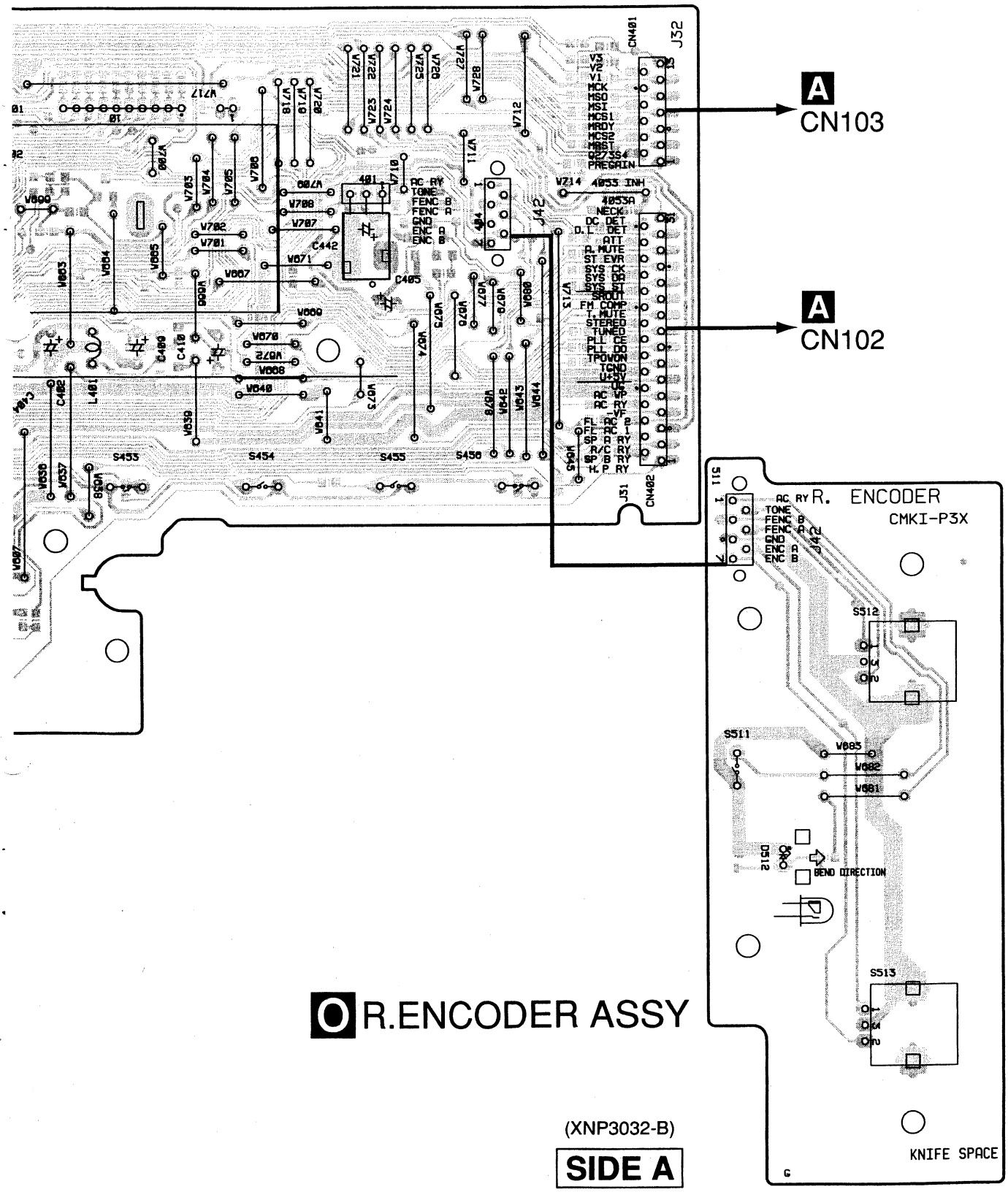
4.6 FRONT, R.ENCODER and POWER SW ASSYS

N FRONT ASSY





P POWER SW ASSY

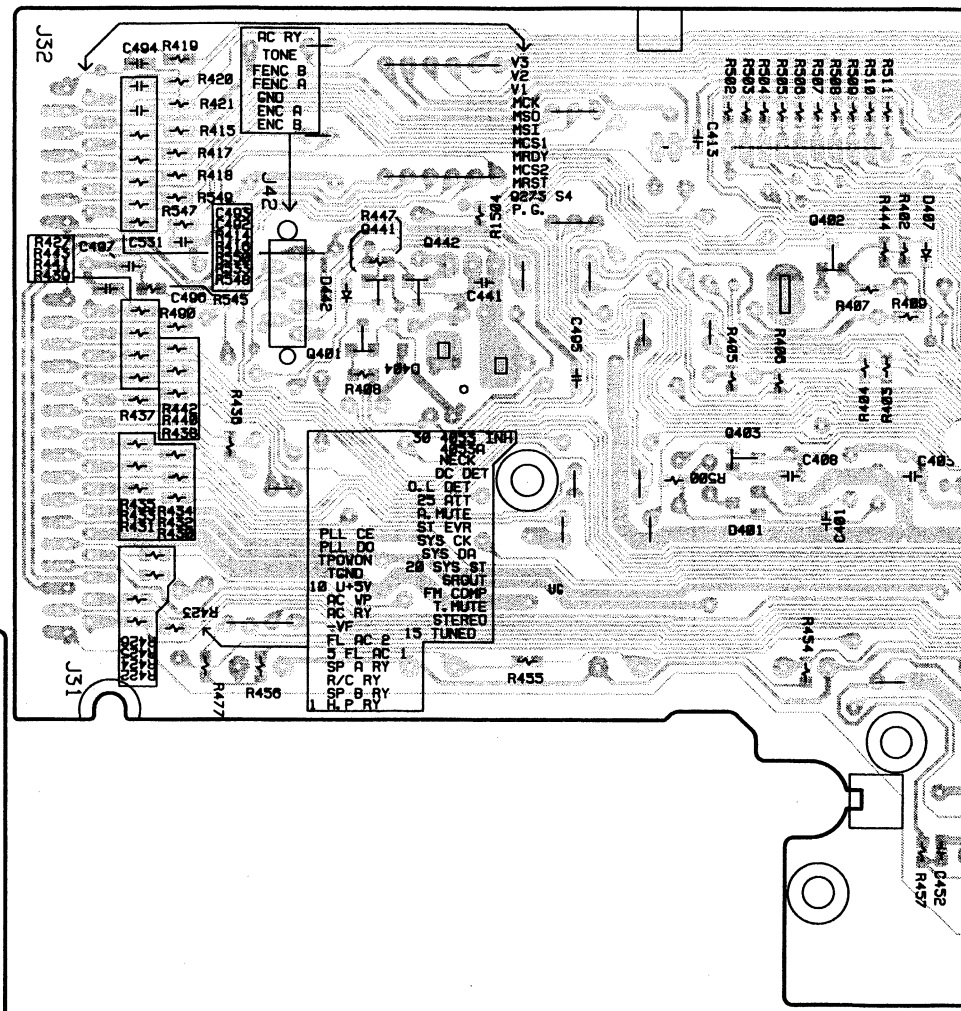


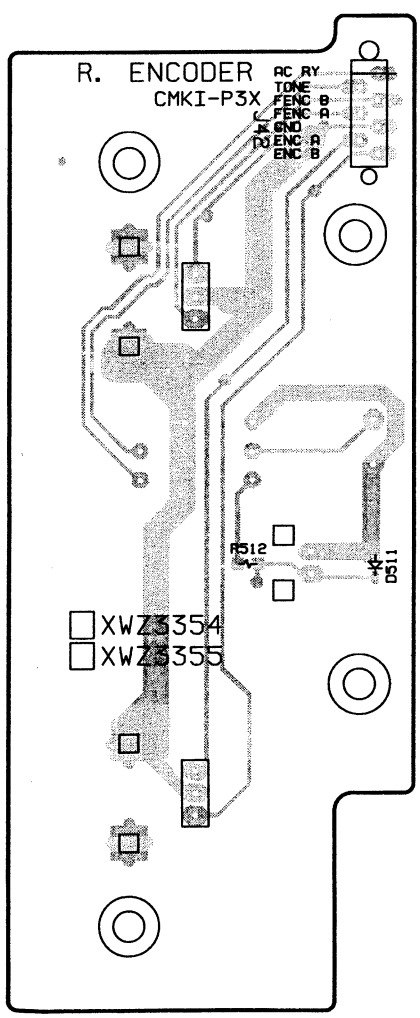
R.ENCODER ASSY

(XNP3032-B)

SIDE A

N FRONT ASSY

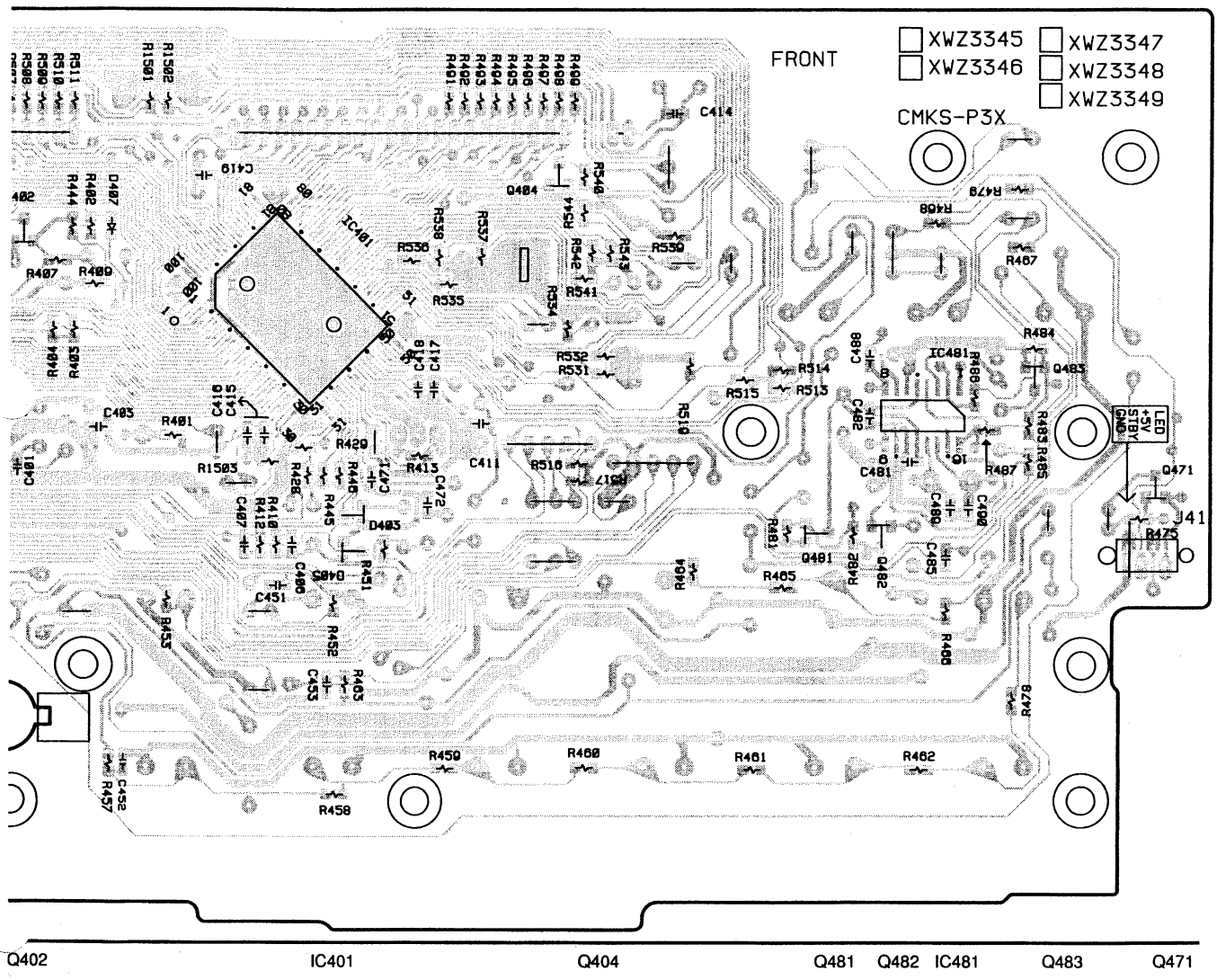


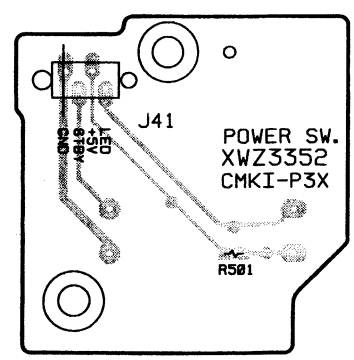


O R.ENCODER ASSY

(XNP3032-B)

SIDE B

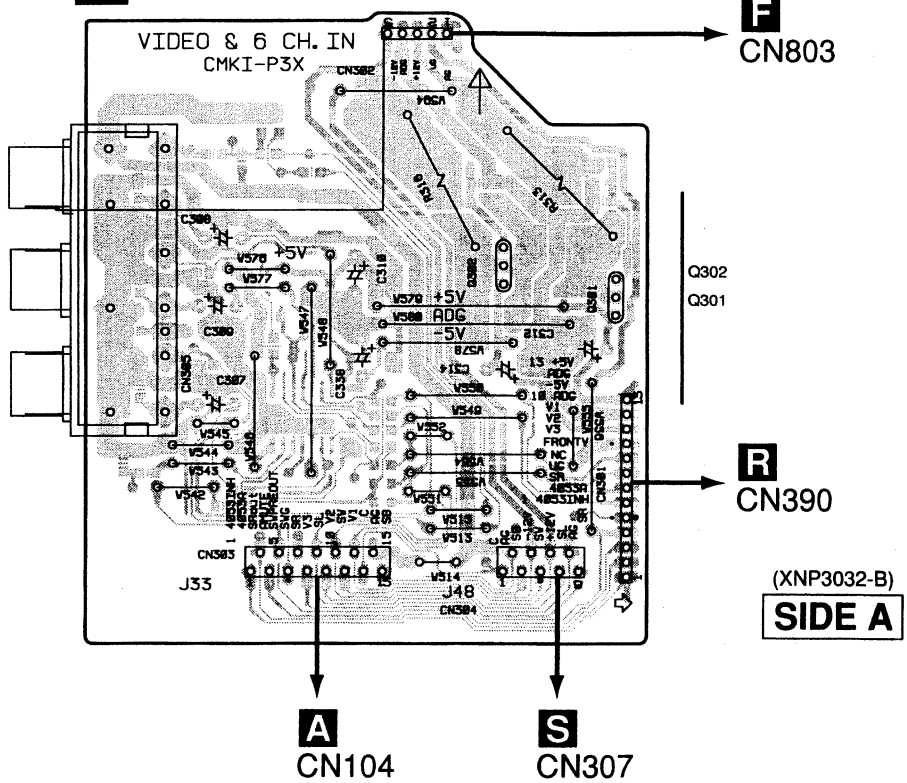




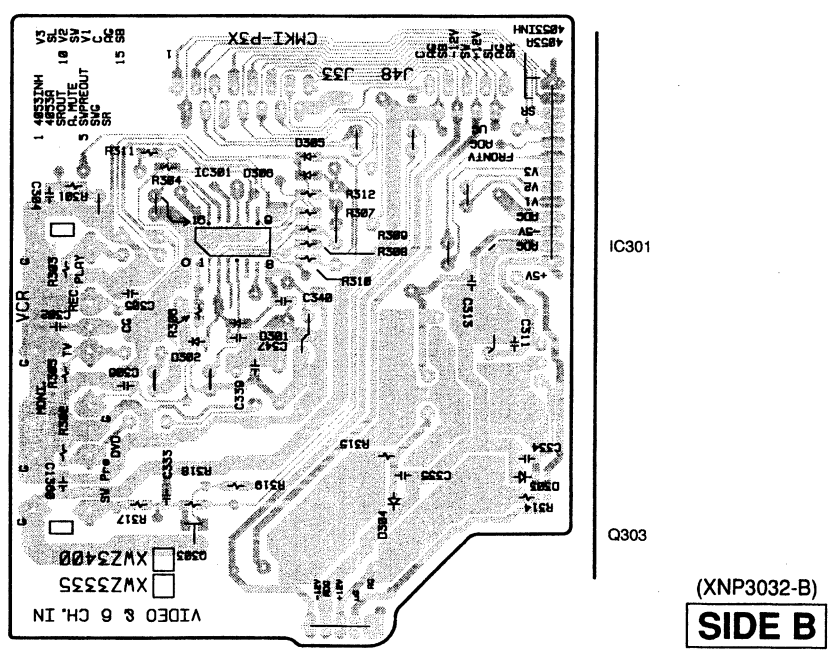
P POWER SW ASSY

4.7 VIDEO&6CH IN ASSY

Q VIDEO&6CH IN ASSY

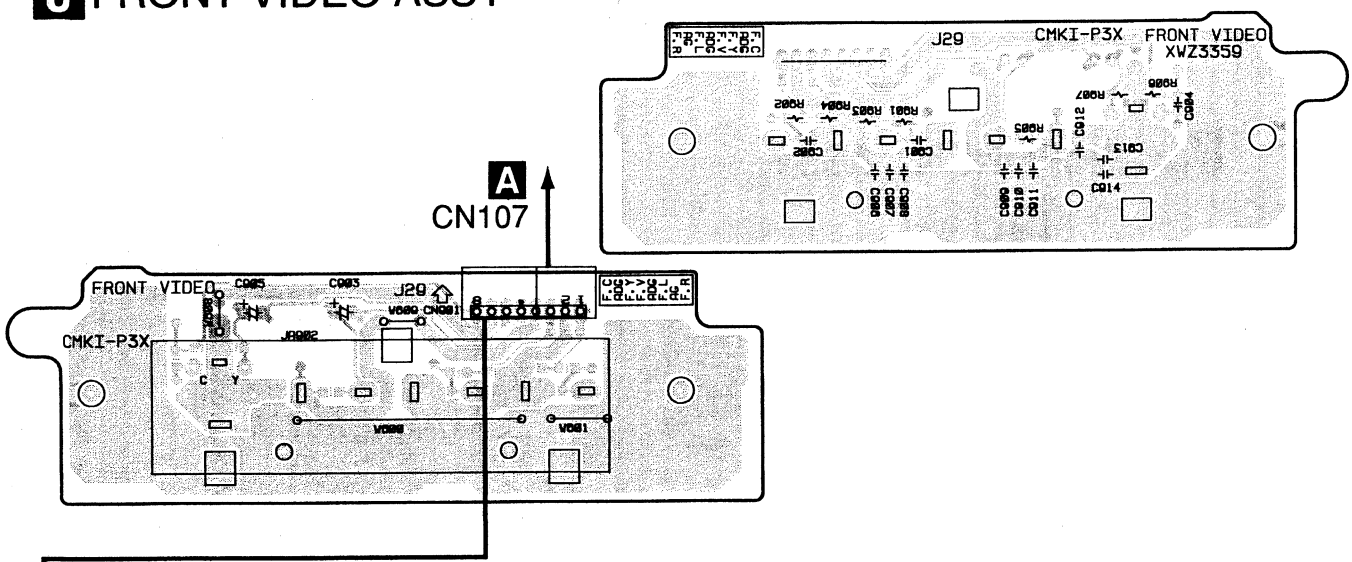


Q VIDEO&6CH IN ASSY

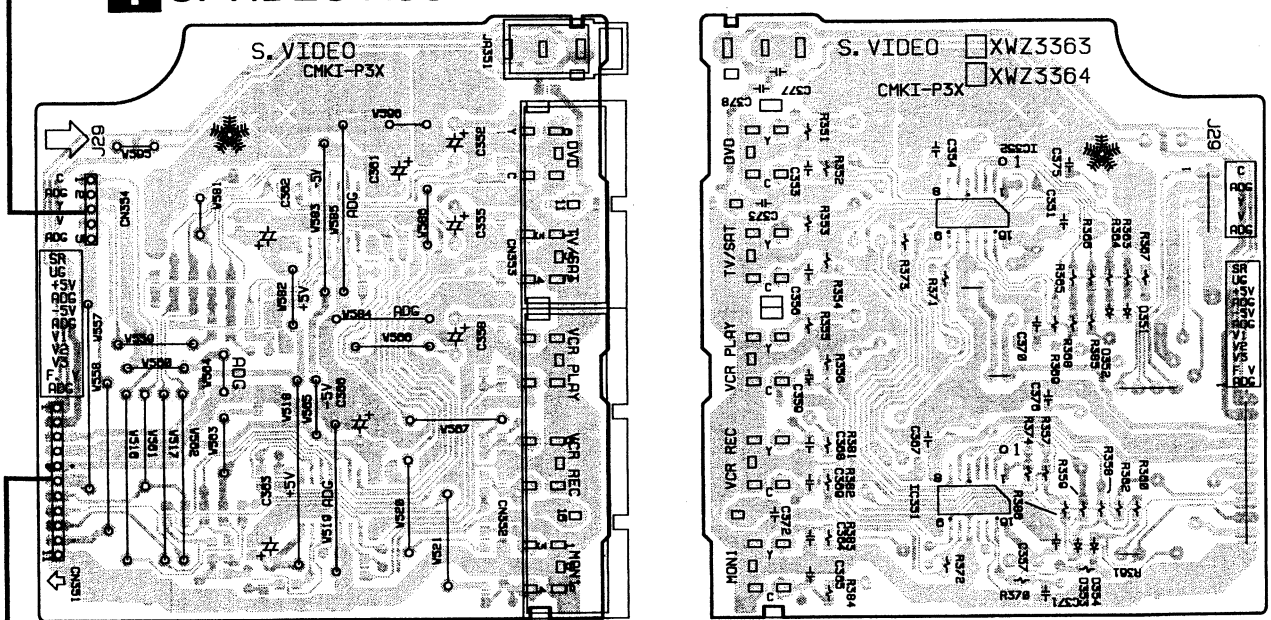


4.8 FRONT VIDEO, BOARD TO BOARD and S.VIDEO ASSYS

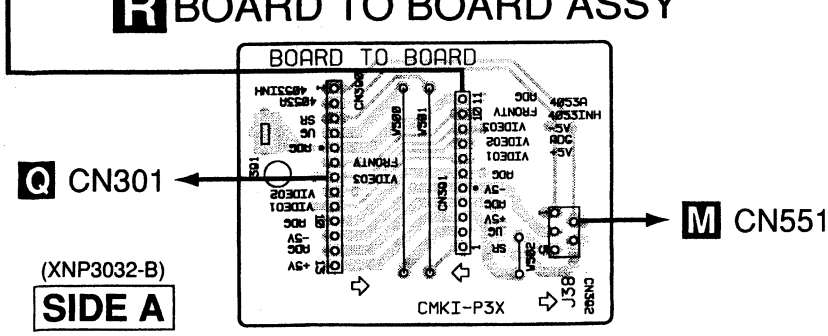
J FRONT VIDEO ASSY



T S. VIDEO ASSY

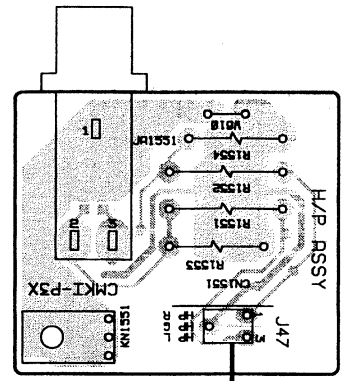


R BOARD TO BOARD ASSY



4.9 H.P. and COMPONENT ASSYS

LA H.P. ASSY

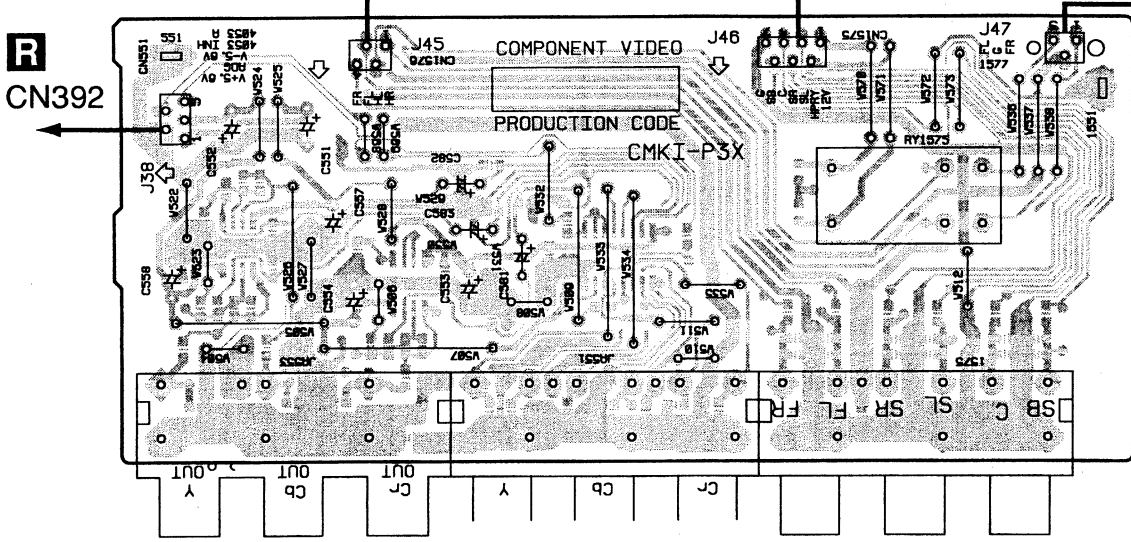


M COMPONENT ASSY

C CN603

C CN604

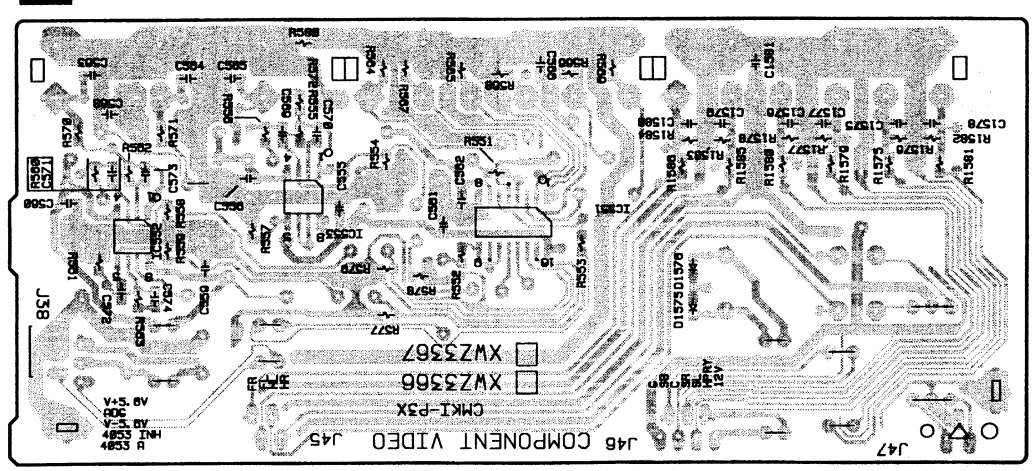
R CN392



(XNP3032-B)

SIDE A

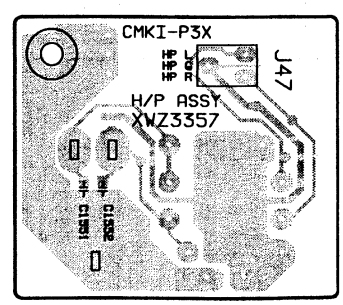
M COMPONENT ASSY



(XNP3032-B)

SIDE B

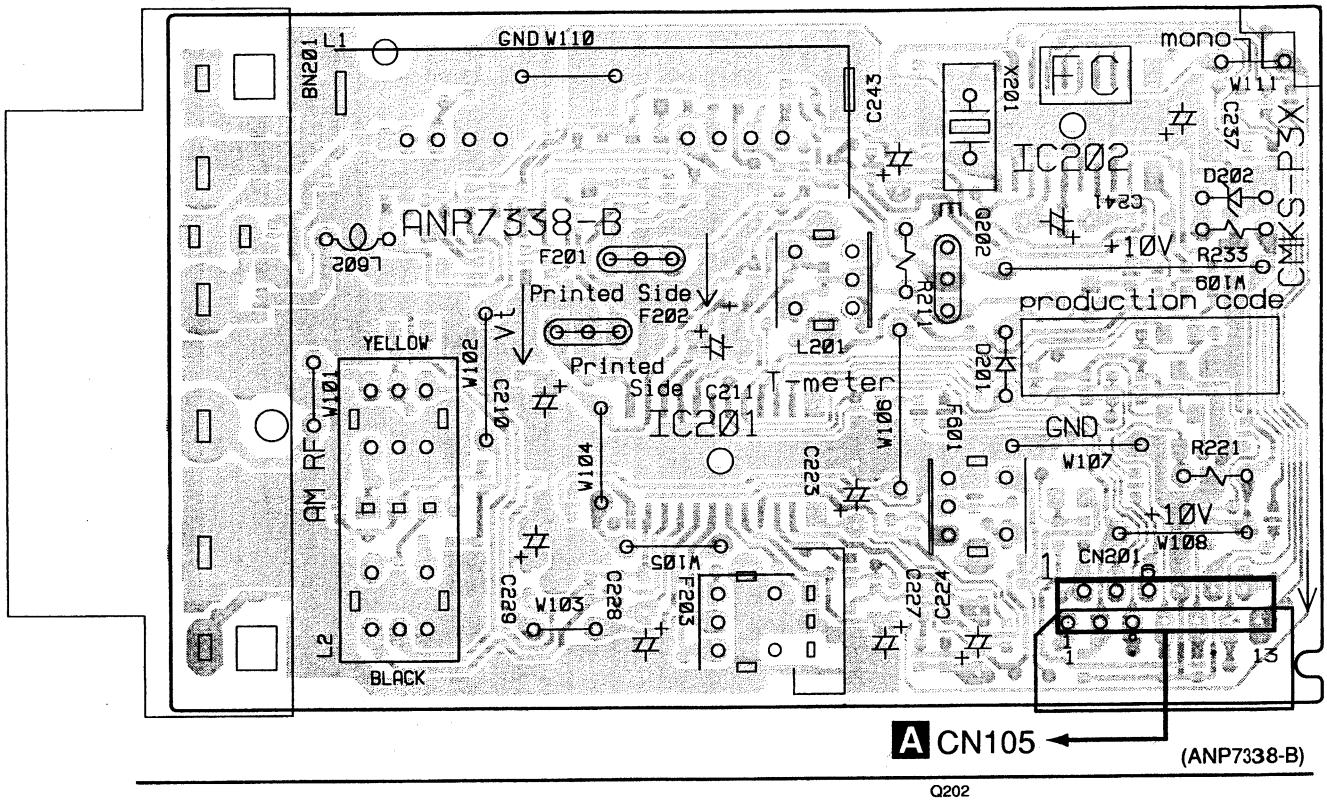
IC552 IC553 IC551



LA H.P. ASSY

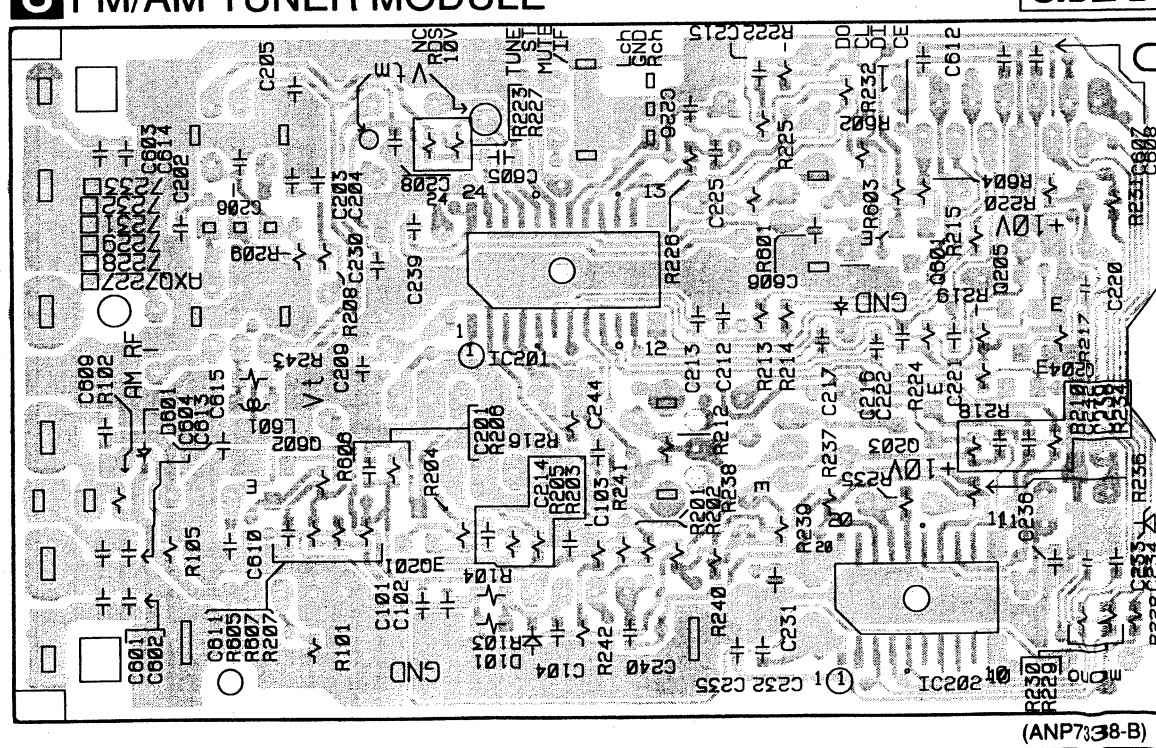
4.10 FM/AM TUNER MODULE

U FM/AM TUNER MODULE **SIDE A**



Q202

U FM/AM TUNER MODULE **SIDE B**



Q201 IC201 Q203 IC202 Q205 Q204

5. PCB PARTS LIST

NOTES: ●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Part No.
		FM/AM TUNER MODULE	AXQ7232
NSP		COMPLEX ASSY	XWK3011
		├ VIDEO&6CH IN ASSY	XWZ3335
		├ FRONT ASSY	XWZ3346
		├ 6CH IN ASSY	XWZ3350
		├ POWER SW ASSY	XWZ3352
		├ R.ENCODER ASSY	XWZ3354
		├ H.P. ASSY	XWZ3357
		├ MECHA SW ASSY	XWZ3358
		├ FRONT VIDEO ASSY	XWZ3359
		├ S.VIDEO ASSY	XWZ3363
		├ COMPONENT ASSY	XWZ3366
		├ D TO O ASSY	XWZ3368
		├ TRANS4 ASSY	XWZ3369
		└ BOARD TO BOARD ASSY	XWZ3371
NSP		AMP&PS ASSY	XWK3024
		├ AMP&PRIMARY ASSY	XWZ3381
		├ REGULATOR ASSY	XWZ3386
		├ AMP INPUT ASSY	XWZ3389
		├ TRANS2 ASSY	XWZ3404
NSP		├ TRANS1 ASSY	XWZ3390
NSP		└ TRANS3 ASSY	XWZ3392
NSP		D.D & INPUT ASSY	XWK3028
		├ D.D DSP ASSY	XWZ3395
		└ D.D UCOM ASSY	XWZ3398

COMPLEX ASSY

OTHERS

J 47	JUMPER WIRED	D15A03-400-2651
J 41	JUMPER WIRED	D15A04-125-2651
J 42	JUMPER WIRED	D15A07-075-2651

AMP&PS ASSY

OTHERS

Y 8	AWG14 BOARD IN	ADX7284
J 44	JUMPER WIRED	D20PYY0325E
J 21	JUMPER WIRED	D20PYY0715E

A D.D UCOM ASSY

SEMICONDUCTORS

IC103	M62446FP
IC5901	PD5634A
IC102	TC9163AF
IC111	TC9215AF
IC101	TC9273F-007
IC112	TC9459F
IC104–IC107, IC110	UPC4570G2-TFB
Q101	2SC1740S
Q251, Q252	2SC2412K
Q107–Q112	2SC3326
D103, D105, D106, D254, D255	1SS355
D201, D202	RB501V-40
D104, D256	UDZS5.1B
D101, D102	UDZS6.8B

COILS AND FILTERS

L5901 CHIP SOLID INDUCTOR	ATL7002
L101, L102, L111, L112	QTL1013
L1203, L1204, L1601, L1602, L5902 CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

C101–C114, C121–C123	CCSRCH101J50
C126–C128, C152–C154	CCSRCH101J50
C158–C160, C197, C198	CCSRCH101J50
C207, C208, C221, C222	CCSRCH101J50
C228, C229	CCSRCH101J50
C211, C212	CCSRCH220J50
C235, C241	CCSRCH221J50
C5906	CCSRCH271J50
C251, C252, C5902	CCSRCH471J50
C130–C137, C146–C151	CEAT100M50
C161, C162, C202, C245–C247	CEAT100M50
C261	CEAT100M50
C5904	CEAT101M10
C157	CEAT101M16
C144, C145, C250	CEAT3R3M50
C117, C118	CEAT470M25
C225, C226, C232, C233, C239	CEAT470M50
C244	CEAT470M50
C155, C156	CEAT471M10
C115, C116, C234, C240	CEAT4R7M50
C173, C174	CKSQYB224K16
C256	CKSQYF105Z16
C271, C5912	CKSRYB102K50
C119, C120, C124, C125	CKSRYB103K50
C171, C172, C179, C180, C183	CKSRYB103K50
C199–C201, C203, C204	CKSRYB103K50
C223, C224, C230, C231	CKSRYB103K50
C237, C238, C242, C243	CKSRYB103K50
C248, C249	CKSRYB103K50
C140, C143, C253–C255, C5907	CKSRYB104K16

Mark	No.	Description	Part No.
	C236		CKSRYB152K50
	C139, C142		CKSRYB153K50
	C138, C141		CKSRYB822K50
	C227		CKSRYF104Z16
	C1631, C1632		CKSRYF104Z25
	C184, C185		CKSRYF473Z50

RESISTORS

⚠	R171–R173		RS1/16S102J
⚠	R174, R175		RS1LMF101J
	Other Resistors		RS1/16S□□□J

OTHERS

CN9501, CN9502	20P CONNECTOR	52044-2045
CN9505	10P CONNECTOR	52045-1045
CN103, CN105	13P CONNECTOR	52045-1345
CN104	15P CONNECTOR	52045-1545
CN106	19P CONNECTOR	52045-1945
CN102	31P CONNECTOR	52045-3145
JA101–JA104	PIN JACK (4P)	AKB7048
CN107	CONNECTOR POST	B3B-PH-K
CN101, CN108	19P SOCKET	KP200TA20L
101–104	PCB BINDER	VEF1040
X5901	CERAMIC RESONATOR (15.7MHz)	ASS7032

B D.D DSP ASSY

SEMICONDUCTORS

IC9101	AK4112AVF
IC9102	AK4527VQ
IC9551	AK7706VT
IC9103	CS4391
IC9501	CS493292
IC9201, IC9202	NJM2100M
IC9504	PDN031C
IC9811	PQ20WZ51
IC9812	PQ7VZ5
IC9552	TC551001CFT-70L
IC9151	TC74ACT151F
IC9152	TC74HCU04AF
IC9505	TC74LVX244FT
IC9502, IC9503	TC74VHC574F
IC9506	TC74VHCT244AFT
IC9507	TC7WU04FU
IC9601	TC9164AF
IC9602–IC9604, IC9701–IC9707	UPC4570G2-TFB
Q9201, Q9202, Q9601–Q9606, Q9611	2SC3326
Q9102, Q9104, Q9203, Q9607	DTA124EK
Q9609, Q9610	DTA124EK
Q9101, Q9103, Q9204, Q9608	DTC124EK
D9601, D9602	1SS181

COILS AND FILTERS

L9501, L9551, L9801, L9802, L9807	ATL7002
L9809, L9811, L9812, L9900, L9901 CHIP SOLID INDUCTOR	ATL7002
L9101–L9107, L9151–L9153	QTL1013
L9502, L9503, L9506, L9507, L9552	QTL1013
L9813 CHIP SOLID INDUCTOR	QTL1013

Mark	No.	Description	Part No.

CAPACITORS

C9510, C9511	CCSRCH100D50
C9115, C9135, C9160, C9609, C9610	CCSRCH101J50
C9721, C9722, C9735, C9900	CCSRCH101J50
C9822	CCSRCH102J50
C9107	CCSRCH150J50
C9106	CCSRCH180J50
C9621, C9622, C9749, C9751, C9809	CCSRCH221J50
C9509, C9629	CCSRCH271J50
C9159	CCSRCH470J50
C9101, C9104, C9112, C9114, C9119	CCSRCH471J50
C9122, C9130, C9154, C9156, C9503	CCSRCH471J50
C9505, C9507, C9513, C9515, C9518	CCSRCH471J50
C9520, C9522, C9525, C9528, C9553	CCSRCH471J50
C9555, C9557, C9559, C9561, C9564	CCSRCH471J50
C9617, C9618, C9639, C9757	CCSRCH471J50
C9201, C9202	CCSRCH560J50
C9707, C9708	CCSRCH820J50
C9611, C9612, C9736	CCSRCH821J25
C9113	CEAT221M10
C9523, C9526, C9643, C9644, C9770	CEJQ100M25
C9501, C9516, C9551, C9740	CEJQ101M10
C9801, C9802, C9812, C9814	CEJQ101M10
C9123, C9125	CEJQ1R0M50
C9127, C9529	CEJQ2R2M50
C9713, C9714, C9727, C9728, C9739	CEJQ330M10
C9753, C9765–C9769	CEJQ330M10
C9102, C9108, C9117, C9120	CEJQ470M16
C9151, C9152, C9162, C9562	CEJQ470M16
C9803, C9805	CEJQ470M25
C9203, C9204, C9206, C9207	CEJQ4R7M50
C9603, C9604, C9615, C9616	CEJQ4R7M50
C9627, C9628, C9761, C9811,C9813	CEJQ4R7M50
C9110	CEJQR47M50
C9131, C9745, C9781, C9815	CKSRYB102K50
C9103, C9105, C9118, C9121, C9124	CKSRYB103K50
C9133, C9134, C9153, C9155	CKSRYB103K50
C9157, C9158, C9502, C9504, C9506	CKSRYB103K50
C9508, C9512, C9514, C9517, C9519	CKSRYB103K50
C9521, C9524, C9527, C9531, C9552	CKSRYB103K50
C9554, C9556, C9558, C9560, C9563	CKSRYB103K50
C9572, C9636, C9637, C9816	CKSRYB103K50
C9109, C9116, C9126, C9626, C9784	CKSRYB104K16
C9804, C9806, C9817, C9818, C9831	CKSRYB104K16
C9841, C9901, C9904, C9905	CKSRYB104K16
C9605, C9606, C9633, C9755	CKSRYB122K50
C9211, C9212	CKSRYB152K50
C9703, C9704, C9715, C9716, C9729	CKSRYB182K50
C9601, C9602, C9613, C9614, C9625	CKSRYB222K50
C9763	CKSRYB222K50
C9701, C9702	CKSRYB272K50
C9732	CKSRYB333K16
C9645	CKSRYB472K50
C9111	CKSRYB682K50
C9717, C9718, C9731	CKSRYB821K50
C9163, C9164, C9166, C9205	CKSRYF104Z25
C9208–C9210, C9607, C9608	CKSRYF104Z25
C9619, C9620, C9631, C9632	CKSRYF104Z25
C9705, C9706, C9709–C9712	CKSRYF104Z25
C9723–C9726, C9730, C9737, C9738	CKSRYF104Z25
C9759, C9760, C9810, C9819–C9821	CKSRYF104Z25
C9823	CKSRYF104Z25

Mark	No.	Description	Part No.
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	CN9805, CN9806	20P CONNECTOR	52045-2045
	JA9150, JA9152,JA9153	OPTICAL LINK IN	GP1FA551RZ
	JA9155	OPTICAL LINK OUT	GP1FA551TZ
	CN9801	20P SOCKET	KP200TA20L
	CN9802	9P SOCKET	KP200TA9L
	JA9151	1P PIN JACK	VKB1077
	X9101	CRYSTAL RESONATOR (24MHz)	ASS7025
	X9501	CRYSTAL RESONATOR (27.0MHz)	VSS1086

C AMP&PRIMARY ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC52	PROTECTOR (315mA)	AEK7003
⚠	IC603	PROTECTOR (1A)	AEK7009
⚠	IC701, IC702	PROTECTOR (125mA)	AEK7020
⚠	IC604–IC607	PROTECTOR (10A)	AEK7022
	IC51		NJM78M56FA
⚠	IC601, IC602		PAC011A
	Q703		2SA1145
	Q702		2SB1238X
	Q696, Q697		2SC1740S
	Q704		2SC1845
	Q605, Q606, Q633, Q655, Q656		2SC2240
	Q683		2SC2240
	Q601–Q604, Q631, Q632		2SC2878
	Q651–Q654, Q681, Q682		2SC2878
	Q701		2SD1859X
	Q51		KRC101M
	D56, D57, D601, D603, D606		1SS133
	D608, D631, D632, D651–D654		1SS133
	D683, D684, D751–D754		1SS133
	D757, D758		1SS133
⚠	D701, D702		D5SBA20(B)
	D711		MTZJ22D
	D58		MTZJ5.1A
	D712		MTZJ5.1B
	D602, D604, D681, D682		MTZJ8.2A
⚠	D51–D55, D721–D724		S5688G
COILS AND FILTERS			
⚠	L51	LINE FILTER	ATF7018
	L751–L754, L761, L762	COIL	ATH1004
SWITCHES AND RELAYS			
	RY751–RY754	RELAY	XSR3002
⚠	RY51	JOE LOWPOWER RELAY	XSR3003
CAPACITORS			
	C707, C708	(0.01μF/AC250V)	ACG1005
⚠	C51, C52	(10000pF/AC250V)	ACG7020
	C703, C704	(3300μF/42V)	ACH7135
	C701, C702	(4700μF/71V)	ACH7137
	C607, C608, C634, C657, C658		CCCSL101J50
	C684		CCCSL101J50
	C611–C614, C636, C637		CCCSL6R0D50
	C661–C664, C686, C687		CCCSL6R0D50
	C615, C616, C638, C665, C666		CEANP2R2M50
	C688		CEANP2R2M50
	C705, C706		CEAT100M2A
	C712		CEAT101M10
	C609, C610, C635, C659, C660		CEAT101M16
	C685		CEAT101M16
	C711		CEAT101M35
	C53		CEAT102M16
	C697		CEAT221M10
	C54		CEAT470M25
	C605, C606, C633, C655, C656		CEAT4R7M50
	C683		CEAT4R7M50
	C751–C756, C761–C764		CFTYA224J50
	C771, C772		CFTYA224J50
	C55–C57		CGCYX103M25
	C601, C602, C652, C681, C696		CKCYB102K50
	C603, C604, C632, C653, C654		CKCYB331K50
	C682		CKCYB331K50
	C631, C651, C769, C770		CKPUYB102K50
	C757–C759, C765–C768, C773		CQMBA472J50
RESISTORS			
⚠	R52		RD1/2PM270J
⚠	R615		RD1/4PU331J
⚠	R751, R752, R755, R761, R762		RD1/4PUF101J
⚠	R772		RD1/4PUF101J
⚠	R753, R754, R756, R763, R764		RS1LMF4R7J
⚠	R771		RS1LMF4R7J
⚠	R711		RS2LMF332J
⚠	R617, R622, R639, R667, R668		XCN3001
⚠	R691	(0.22Ω/5W)	XCN3001
	Other Resistors		RD1/4PU□□□J
OTHERS			
	52	3P CABLE HOLDER	51048-0300
	CN603	4P CONNECTOR	52045-0445
	CN604	7P CONNECTOR	52045-0745
	CN53	23P CONNECTOR	52045-2345
	CN751, CN752	SPEAKER TERMINAL 8-P	AKE7059
	H 51, H 52	FUSE CLIP	AKR7001
⚠	T 51	STANDBY TRANSFORMER	ATT7037
	CN601	18P PLUG	KM200TA18
	CN51	AC CODE SOCKET	RKP1751
	KN51, KN601	EARTH METAL FITTING	VNF1084
⚠	701	7P CABLE HOLDER	XKP3047

D TRANS2 ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC853	PROTECTOR (3A)	AEK7015
⚠	IC851, IC852	PROTECTOR (4A)	AEK7018
OTHERS			
	851	7P CABLE HOLDER	XKP3047

E TRANS3 ASSY

TRANS3 ASSY has no service part.

Mark	No.	Description	Part No.

F REGULATOR ASSY

SEMICONDUCTORS

	IC803, IC804		NJM78M05FA
	IC801, IC805		NJM78M12FA
	IC802		NJM79M12FA
	Q801, Q803, Q805, Q807		KRA103M
	Q802, Q804, Q806, Q808		KRC101M
	D809, D810		MTZJ6.2A
⚠	D801–D804		S5688G

CAPACITORS

	C808, C811		CEAT101M10
	C805, C806, C813		CEAT101M16
	C801, C802		CEAT222M25
	C809		CEAT332M16
	C803, C804, C807, C810, C812		CGCYX103M25

OTHERS

	CN801	23P CONNECTOR	52045-2345
	CN802	20P PLUG	KM200TA20
	CN803	5P PLUG	KM200TA5
	CN804	9P PLUG	KM200TA9

G AMP INPUT ASSY

SEMICONDUCTORS

	IC251		NJM4558D-D
	Q257		2SA933S
	Q251, Q256		2SC2878
	Q252		2SD1858X
	Q254		KRA103M
	Q253, Q255		KRC103M
	D251, D252		1SS133
	D253		MTZJ27D
	D254		MTZJ5.1B

CAPACITORS

	C251		CEANP470M25
	C254		CEAT101M25
	C252, C253		CKPUYF103Z25

RESISTORS

	All Resistors		RD1/4PU□□□J

OTHERS

	CN251	3P CONNECTOR	52044-0345
	CN254	19P CONNECTOR	52044-1945
	CN252	3P PLUG	KM250MA3L
	CN253	18P SOCKET	KP200TA18L

H TRANS1 ASSY

TRANS1 ASSY has no service part.

I TRANS4 ASSY

SEMICONDUCTORS

⚠	IC891, IC892	PROTECTOR (630mA)	AEK7006
	D891		S1WB(A)60SD

CAPACITORS

	C891, C892		CEAT471M35

Mark	No.	Description	Part No.

OTHERS

	CN891	3P CONNECTOR	52045-0345

J FRONT VIDEO ASSY

CAPACITORS

	C903, C905		CEJQ470M25
	C908, C911, C914		CKSRYB103K50
	C904, C906, C909, C912		CKSRYB104K25
	C901, C902		CKSRYB221K50
	C907, C910, C913		CKSRYB471K50

RESISTORS

	All Resistors		RS1/16S□□□J

OTHERS

	JA902	PIN JACK (4P)	AKX7014
	CN901	CONNECTOR	S8B-PH-K-S

K D TO O ASSY

OTHERS

	CN1001,CN1002	20P PLUG	KM200TA20

LA H.P. ASSY

CAPACITORS

	C1551, C1552		CKSRYB223K50

RESISTORS

⚠	R1553, R1554		RS1LMF471J
⚠	R1551, R1552		RS2LMF331J

OTHERS

	CN1551	CONNECTOR(3P)	KPE3
	JA1551	JACK	RKN1002
	KN1551	EARTH METAL FITTING	VNF1084

LB MECHA SW ASSY

SWITCHES AND RELAYS

	S591		ASG7014

CAPACITORS

	C591, C592		CKSQYF103Z50

OTHERS

	CN591	3PJUMPER CONNECTOR	52151-0310

M COMPONENT ASSY

SEMICONDUCTORS

	IC551		TC74HC4053AF
	IC552, IC553		TK15420M
	D1575,D1576		1SS355

SWITCHES AND RELAYS

	RY1575	RELAY	XSR3002

CAPACITORS

	C551–C554, C557, C558		CEAT101M10
	C1581, C555, C556, C559–C562		CKSRYB103K50
	C566, C568		CKSRYB103K50

Mark	No.	Description	Part No.
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	1577	CABLE HOLDER(3P)	51063-0305
	CN1576	4P CONNECTOR	52045-0445
	CN551	5P CONNECTOR	52045-0545
	CN1575	7P CONNECTOR	52045-0745
	1575	PIN JACK(6P)	AKB7089
	JA553	3P RCA PINJACK	AKB7124
	JA551	6P RCA PINJACK	AKB7128

N FRONT ASSY

SEMICONDUCTORS			
	IC481		BU1923F
	IC401		PDG261A
	Q481		2SA1037K
	Q483		2SC3326
	Q401, Q402, Q442, Q471		DTA124EK
	Q403, Q404, Q441, Q482		DTC143EK
	D407, D442		1SS355
	D403, D405		DAN217
	D401, D404		DAP202K
COILS AND FILTERS			
	L401, L481		LFEA2R2J
SWITCHES AND RELAYS			
	S451–S468, S476		ASG1051
CAPACITORS			
	C420	(220µF/35V)	ACH7101
	C404	(0.047F/5.5V)	ACH7132
	C489, C490		CCSRCH270J50
	C488		CCSRCH561J50
	C483		CEAT101M10
	C486		CEAT1R0M50
	C402		CEAT221M6R3
	C409, C410, C484		CEAT2R2M50
	C412		CEAT470M50
	C405		CEJQ221M6R3
	C442		CEJQ470M10
	C451–C453, C472, C481, C482		CKSRYB102K50
	C495		CKSRYB102K50
	C401, C403, C411, C419, C441		CKSRYB103K50
	C531		CKSRYB103K50
	C408, C416, C418, C471		CKSRYB104K16
	C492–C494, C496, C497		CKSRYB104K16
	C485		CKSRYB472K50
	C406, C407		CKSRYB473K16
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	471	CABLE HOLDER (4P)	51063-0405
	404	CABLE HOLDER (7P)	51063-0705
	CN401	13P CONNECTOR	52044-1345
	CN402	31P CONNECTOR	52044-3145
	V401	FL TUBE	XAV3010

Mark	No.	Description	Part No.
	X481	CERAMIC RESONATOR (4.332MHz)	ASS7004
	X401	CERAMIC RESONATOR (7.2MHz)	ASS7018
	401	REMOTE RECEIVER UNIT	GP1U28X

O R.ENCODER ASSY

SWITCHES AND RELAYS			
	S511		ASG1051
	S513	ROTARY ENCODER	XSX3005
	S512	ROTARY ENCODER	XSX3006
OTHERS			
	511	CABLE HOLDER (7P)	51063-0705

P POWER SW ASSY

SEMICONDUCTORS			
	D501		BR3371XJ30A
SWITCHES AND RELAYS			
	S501		ASG1051
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	501	CABLE HOLDER (4P)	51063-0405

Q VIDEO&6CH IN ASSY

SEMICONDUCTORS			
	IC301		NJM2296M
	Q302		2SA1515
	Q303		2SC3326
	Q301		2SC3377
	D301, D302, D305, D306		1SS355
	D303, D304		UDZS6.2B
CAPACITORS			
	C347		CCSRCH470J50
	C307–C310, C312, C314, C338		CEAT470M25
	C1360, C302		CKSRYB103K50
	C339, C340		CKSRYB104K25
	C304–C306		CKSRYB221K50
	C333		CKSRYB331K50
	C311, C313		CKSRYB473K25
RESISTORS			
⚠	R313, R316		RS3LMF390J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN304	9P CONNECTOR	52044-0945
	CN303	15P CONNECTOR	52044-1545
	CN305	6P PIN JACK	AKB7123
	CN301	13P SOCKET	KP200TA13L
	CN302	5P SOCKET	KP200TA5L

Mark	No.	Description	Part No.

R BOARD TO BOARD ASSY

OTHERS

CN392	5P CONNECTOR	52045-0545
CN391	11P PLUG	KM200TA11
CN390	3P PLUG	KM200TA13

S 6CH IN ASSY

SEMICONDUCTORS

IC302–IC305	NJM4558MD

CAPACITORS

C1354, C1359, C319, C320	CCSRCH101J50
C327, C328, C342–C345	CCSRCH101J50
C348, C349	CCSRCH101J50
C1362	CCSRCH121J50
C1361	CCSRCH680J50
C1357	CEAT220M25
C1358, C321, C324, C331, C332	CEAT4R7M50
C1352, C1353, C1355,C1356,C316	CKSRYB103K50
C322, C323, C329, C330	CKSRYB103K50
C1350, C1351, C317, C318	CKSRYB221K50
C325, C326	CKSRYB221K50

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

CN307	9P CONNECTOR	52044-0945
308	PIN JACK(6P)	AKB7089

T S. VIDEO ASSY

SEMICONDUCTORS

IC351, IC352	NJM2296M
D351–D354	1SS355

CAPACITORS

C375, C376	CCSRCH470J50
C352, C355, C358, C361–C363	CEAT470M25
C366	CEAT470M25
C372, C373, C377, C378	CKSRYB103K50
C351, C353, C354, C356, C357	CKSRYB104K25
C359, C367	CKSRYB104K25
C364, C365, C368–C371	CKSRYB221K50

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

CN354	CONNECTOR POST	B5B-PH-K
CN351	11P SOCKET	KP200TA11L
JA351	JACK	RKN1004
CN353	2-4P MINI DIN SOCKET	XKP3044
CN352	3-4P MINI DIN SOCKET	XKP3045

U FM/AM TUNER MODULE

SEMICONDUCTORS

IC201	BA1451F
IC202	LC72131MD-TFB
Q201, Q204, Q205, Q601	2SC2412K
Q202	DTA124ES
Q203, Q602	DTC124EK
D201	1SS133
D601	HVU187
D202	MTZJ5.1C
D101	UDZS6.8B

COILS AND FILTERS

L201	FM DETECTOR COIL	ATE7003
F202	CERAMIC FILTER	ATF-107
F201	CERAMIC FILTER	ATF-119
F601	ANTIBIRDY FILTER	ATF7025
F203	AM CERAMIC FILTER	ATF7026
L602		LAU2R2J
L601		LCTA270J2520

CAPACITORS

C605	CCSQCH680J50
C212, C213, C226, C233–C235	CCSRCH101J50
C240, C614	CCSRCH101J50
C206	CCSRCH120J50
C231, C232	CCSRCH150J50
C223	CEAT100M50
C229	CEAT101M10
C224	CEAT1R0M50
C227	CEAT220M25
C241	CEAT2R2M50
C243	CEAT330M16
C228	CEAT3R3M50
C237	CEAT470M10
C211	CEJQ1R0M50
C210	CEJQ470M16
C103, C104, C204, C238, C609	CKSRYB102K50
C102, C208, C216, C217, C220	CKSRYB103K50
C239, C242, C604, C610, C615	CKSRYB103K50
C225	CKSRYB153K50
C607, C608	CKSRYB182K50
C201, C205, C214, C230, C236	CKSRYB223K50
C244, C611	CKSRYB223K50
C221	CKSRYB224K10
C603	CKSRYB392K50
C215	CKSRYB471K50
C202, C222	CKSRYB473K16
C606	CKSRYB561K50

RESISTORS

R211	RD1/4PU221J
R221	RD1/4PU222J
R233	RD1/4PU391J
R103, R104	RS1/10S221J
Other Resistors	RS1/16S□□□J

OTHERS

CN201	13P CONNECTOR	52044-1345
BN201	2P TERMINAL WITH PAL	AKA7002
	SHIELD CASE T	ANK7072
	SHIELD CASE B	ANK7073
X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093
	FM FRONT END	AXF7005
	AM RF TUNING BLOCK	AXX7072

6. ADJUSTMENT

6.1 TUNER SECTION

■ AM Tuner Section

• There is no adjustment in the AM tuner.

■ FM Tuner Section

• Set the mode selector to FM BAND.
• Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	ANT. Input level and signal condition			Adjustment	
		Frequency (MHz)	Modulation	Input Level (dBμV)	Adjust point	Contents
1	T-METER Adjustment	98	OFF	80	L201	Adjust L201 so that the DC voltage between Pin 21 and Pin 23 of IC201 (Test point Vtm) gets within 0 ± 50mV.

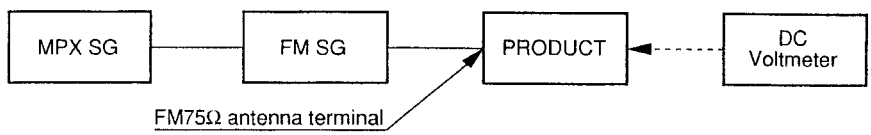


Fig.1 Adjustment Wiring Diagram

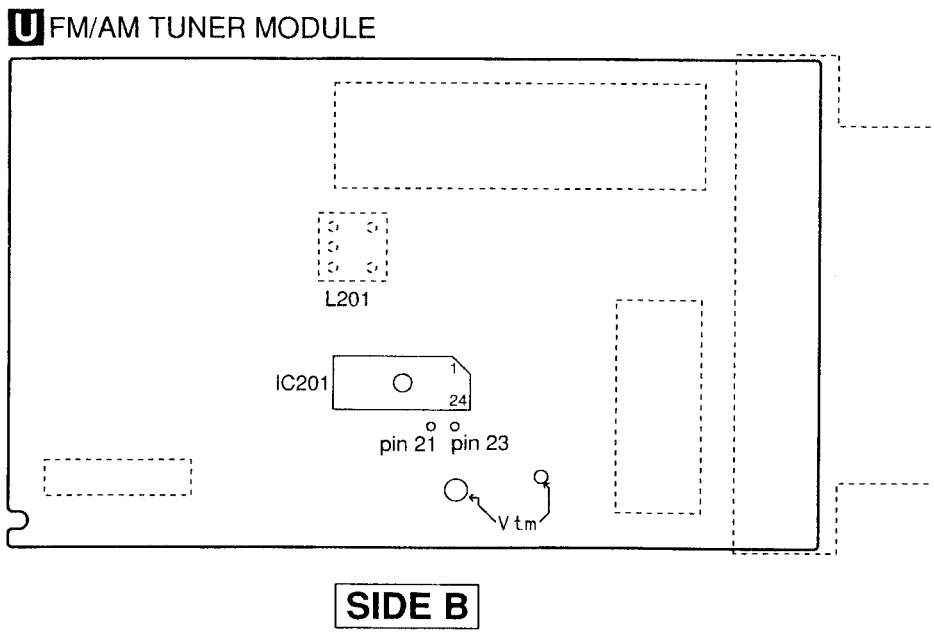
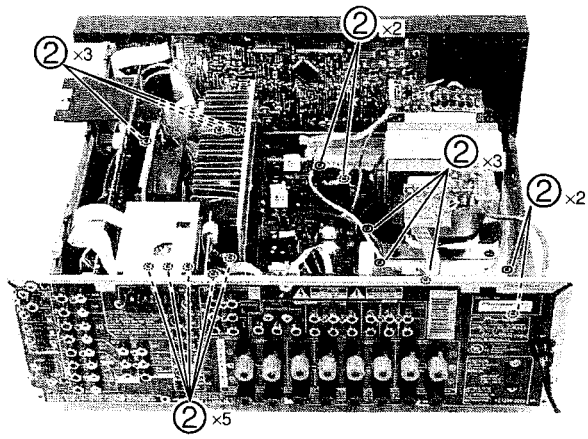


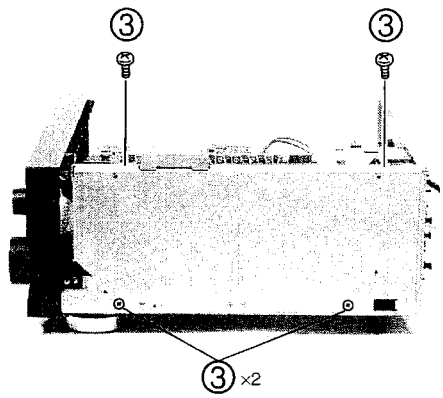
Fig.2 Adjustment Point

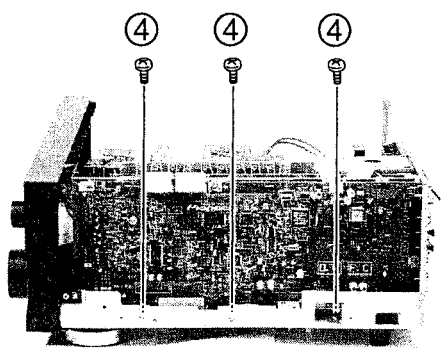
7. GENERAL INFORMATION
7.1 DISASSEMBLY AND DIAGNOSIS
■ Diagnosis

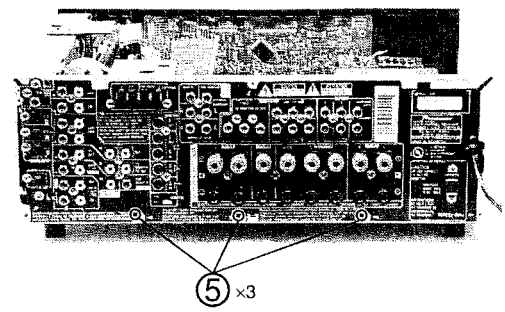
Note : This photograph shows other models.
However, the work method is the same.

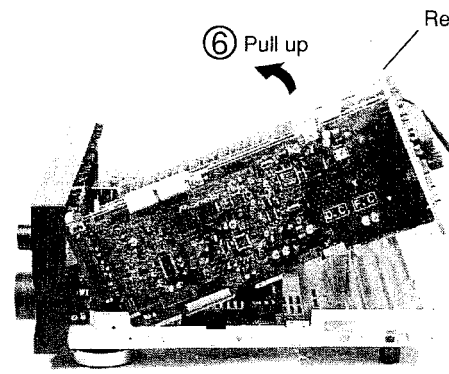
① Remove the Bonnet (seven screws).



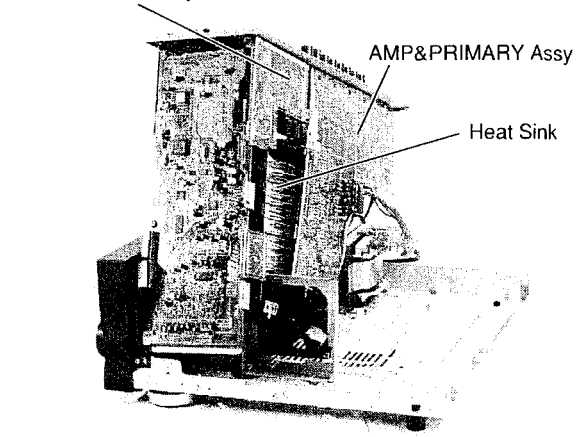






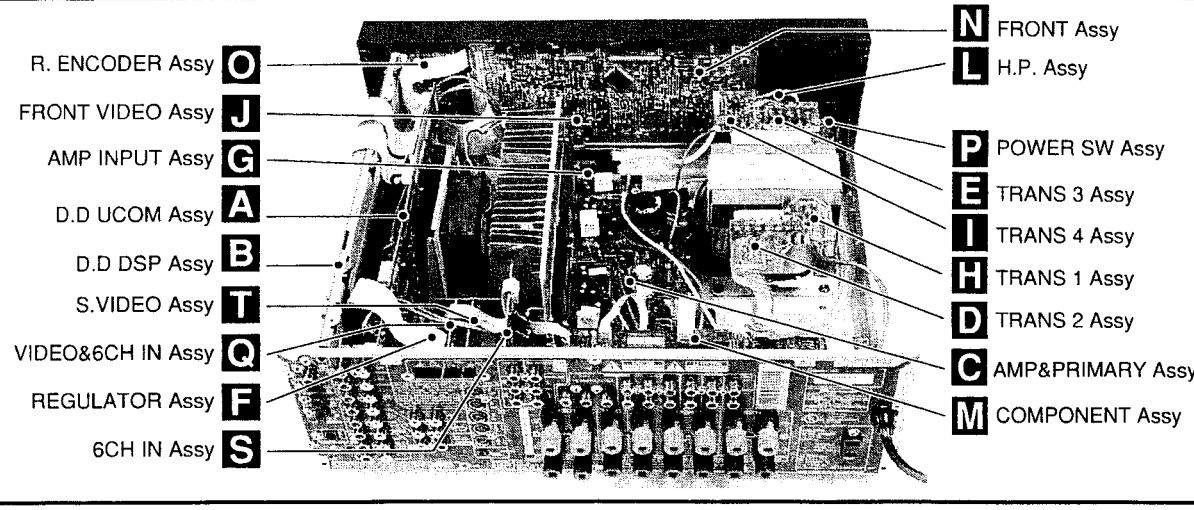


⑦ Diagnosis



Note : The product does not operate when the screws of Speaker Terminal are taken off from Rear Panel.
When FM/AM TUNER MODULE was removed, the product operates except FM/AM TUNER function.

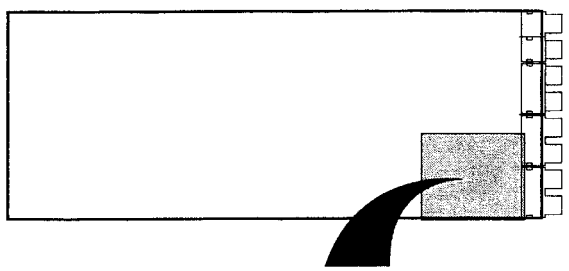
■ PCB Location

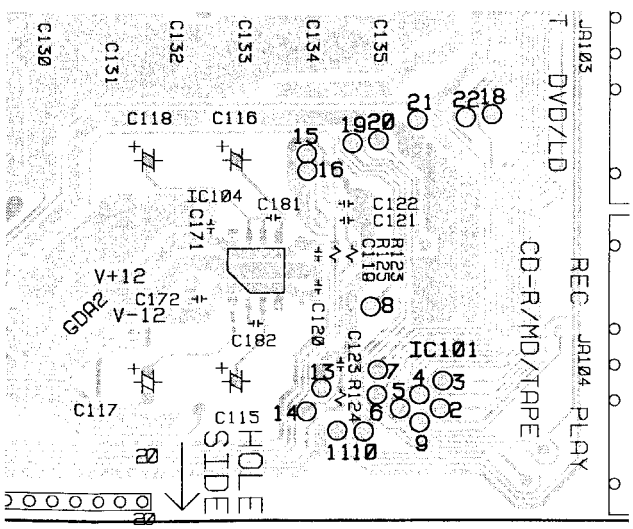


■ Diagnosis of D.D UCOM Assy and D.D DSP Assy

Please check IC101(Function IC) mounted on SIDE B from SIDE A.
The Pin number points on SIDE A of IC101 are shown as follows.

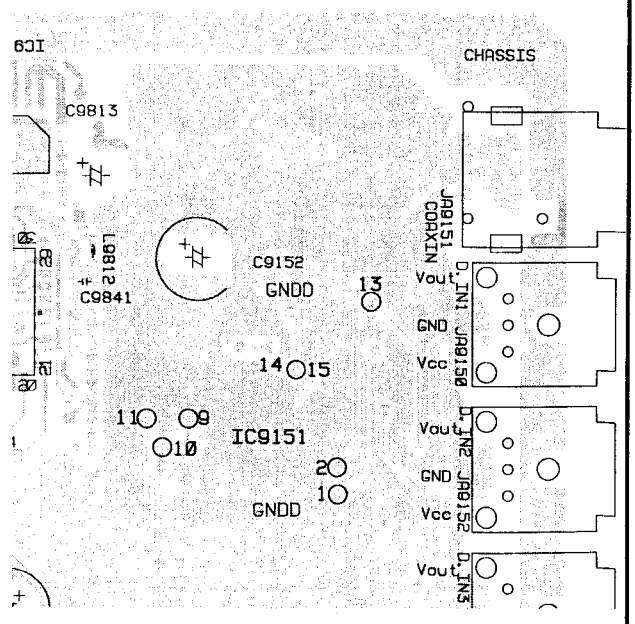
A D.D UCOM Assy SIDE A





Please check IC9151(Digital Selector IC) mounted on SIDE B from SIDE A.
The Pin number points on SIDE A of IC9151 are shown as follows.

B D.D DSP Assy SIDE A



7.2 PARTS

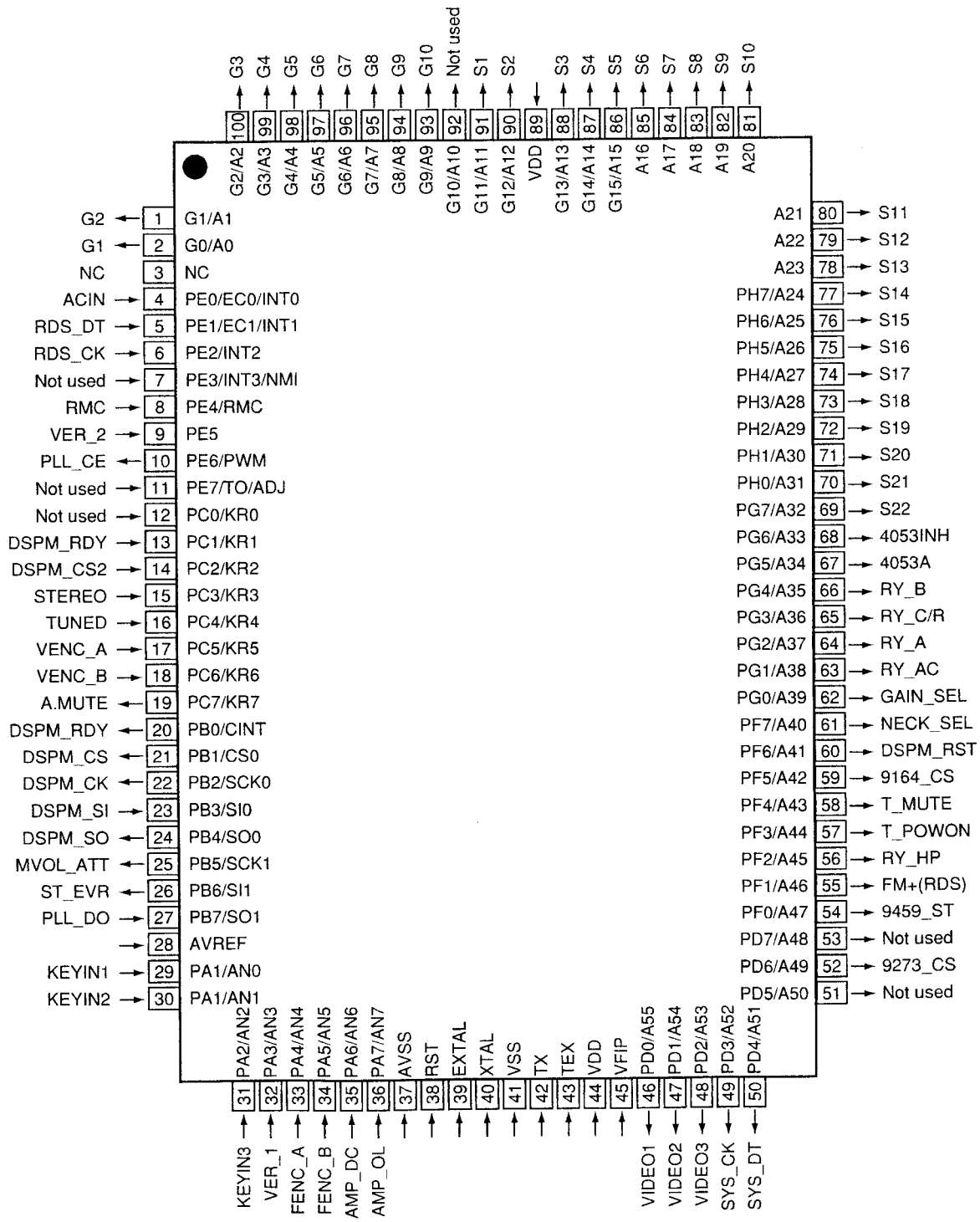
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG261A (FRONT ASSY : IC401)

• System Control MCU

• Pin Arrangement (Top View)



• Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	–	Connect to VDD	
4	ACIN	I	AC pulse input	
5	RDS_DT	I	Serial control DATA signal of RDS communication	
6	RDS_CK	I	Serial control CLOCK signal of RDS communication	
7	Not used	I	Connect to GND	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	VER_2	I	Destination switch 2	
10	PLL_CE	O	Chip select signal for communication with LC72131 (tuner)	H
11	Not used	O		
12	Not used	O		
13	DSPM_RDY	I	DSP Micro Computer READY input	
14	DSPM_CS2	I	CS input for DSP Micro Computer	
15	STEREO	I	Stereo/Monoral signal judgment signal	
16	TUNED	I	TUNED information	
17	ENC_A	I	EVOL Rotary encoder signal input A	
18	ENC_B	I	EVOL Rotary encoder signal input B	
19	AMUTE	O	Audio mute	L
20	DSPM_RDY	O	RADY of DSP Micro Computer communication	
21	DSPM_CS1	O	Chip select output for control of DSP Micro Computer	L
22	DSPM_CK	O	Clock signal for communication with DSP Micro Computer	H
23	DSPM_SI	I	DATA input signal for communication with DSP Micro Computer	
24	DSPM_SO	O	DATA output signal for communication with DSP Micro Computer	H
25	MVRATT	O	ATT control of master volume (L : Less than -15dB)	H
26	ST_EVR	O	Strobe signal for communication with electric volume IC	H
27	PLL_DO	I	Data input signal for communication with LC72131 (tuner)	
28	AVref	–	Connect to VDD	
29	KEYIN1	I	Key input A/D conversion port 1	
30	KEYIN2	I	Key input A/D conversion port 2	
31	KEYIN3	I	Key input A/D conversion port 3	
32	VER_1	I	Destination switch (A/D input)	
33	FENC_A	I	FUNC Rotary encoder signal input A	
34	FENC_B	I	FUNC Rotary encoder signal input B	
35	AMP_DC	I	DC abnormality detection of protection circuit (L : Abnormality detection) *1	L
36	AMP_OL	I	Over-load detection of protection circuit (L : Abnormality detection) *2	L
37	AVSS	–	Connect to VSS	
38	RST	–	Reset	
39	EXTAL	–	Connect to the oscillator (7.2MHz)	
40	XTAL	–		
41	VSS	–	Connect to VSS	
42	TX	–	Open	
43	TEX	–	Connect to VSS	
44	VDD	–	+5V	
45	VFDP	–	-30V	
46	VIDEO1	O	NJM2296D control	H
47	VIDEO2			
48	VIDEO3			
49	SYS_DT	O	Data signal for communication with M62446, TC9163, TC9164 and PLL	H
50	SYS_CK	O	Clock signal for communication with M62446, TC9163, TC9164 and PLL	H

*1 : When DC voltage was output from amplifier, "POWER OFF" is displayed at FL display.

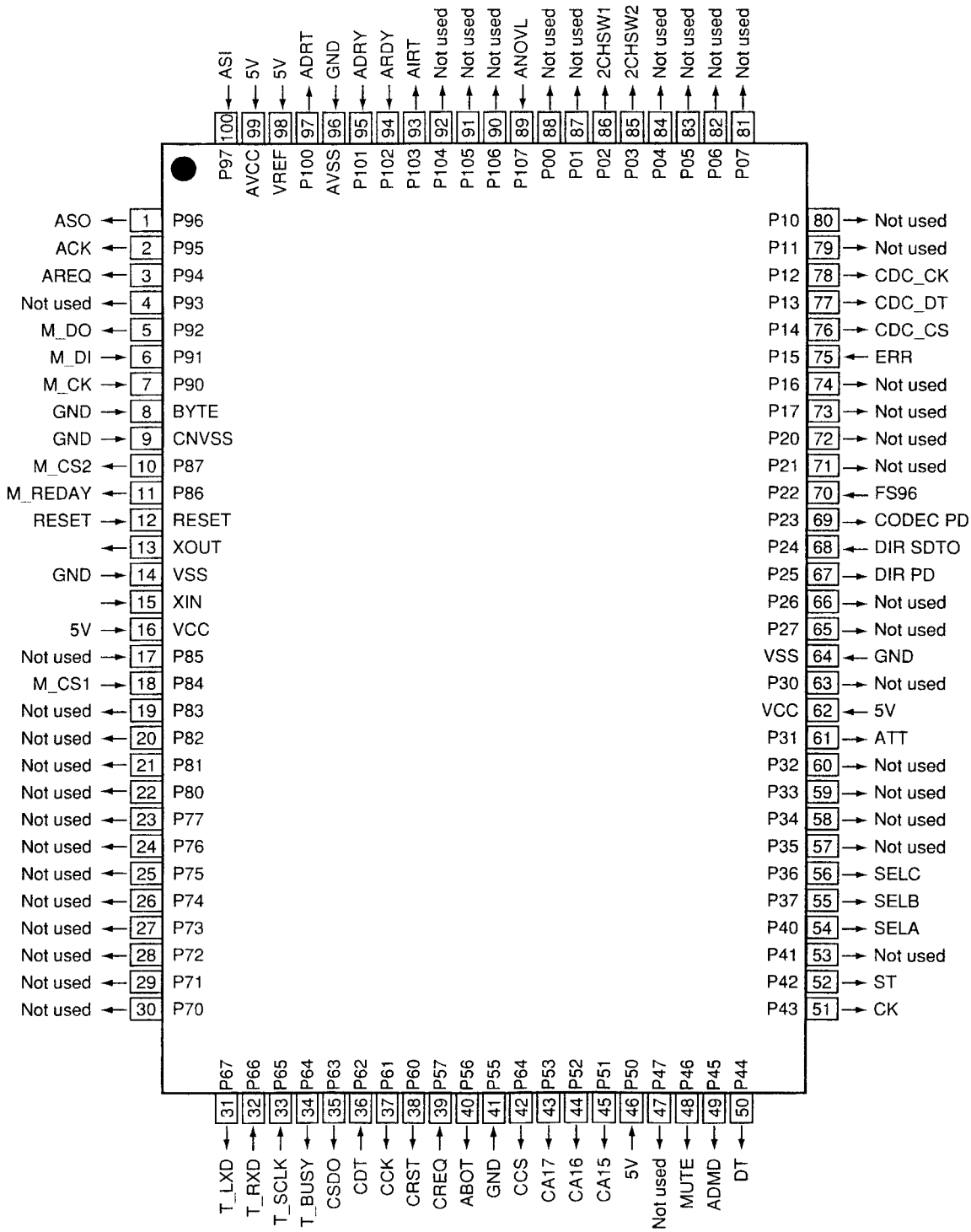
*2 : When the output of amplifier became overload state, "OVER LOAD" is displayed at FL display.

No.	Pin Name	I/O	Pin Function	Active
51	Not used			
52	9273_CS	O	TC9273 Chip select	H
53	Not used	O		
54	9459_ST	O	Electronic volume TC5496 Strobe for SB	H
55	FM+(RDS)	O	Tr switch ON/OFF for power supply of RDS decoder (L : AM, power OFF , H : Other)	H
56	RY_HP	–	HP relay ON/OFF	H
57	T_POWON	O	Tuner module ON/OFF (North America model only)	H
58	T_MUTE	O	Tuner mute	H
59	9164 CS	O	TC9163, TC9164 Chip select	
60	DSP_RST	O	DSP Micro Computer reset	
61	NECK_SEL	O	5.1ch, surround mode and A+B Stereo : H / Stereo : L	
62	GAIN_SEL	O	Gain select (5.1ch and Stereo of analog input : H)	H
63	RY_AC	O	AC relay ON/OFF	H
64	RY_A	O	Speaker A relay ON/OFF	H
65	RY_C/R	O	Rear/Center Speaker relay ON/OFF	H
66	RY_B	O	Speaker B relay ON/OFF	H
67	4053A	O	Component terminal control	H
68	4053INH	O	Component terminal control	H
69	S22	O	Segment output 22	H
70	S21		Segment output 21	
71	S20		Segment output 20	
72	S19		Segment output 19	
73	S18		Segment output 18	
74	S17		Segment output 17	
75	S16		Segment output 16	
76	S15		Segment output 15	
77	S14		Segment output 14	
78	S13		Segment output 13	
79	S12		Segment output 12	
80	S11		Segment output 11	
81	S10		Segment output 10	
82	S9		Segment output 9	
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	–	5V	
90	S2	O	Segment output 2	H
91	S1		Segment output 1	
92	Not used	O	Not used (Fixed Vfdp)	
93	G10	O	Grid output 10	H
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

■ PD5634A (D.D UCOM ASSY : IC5901)

- **Receiver Control microcomputer**

- **Pin Arrangement (Top View)**



• Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	ASO	O	AK7706 DATA output	
2	ACK	O	AK7706 CLOCK output	
3	AREQ	O	AK7706 REQ	
4	Not used	O		
5	M_DO	O	DATA OUT to Main microcomputer	
6	M_DI	I	DATA IN from Main microcomputer	
7	M_CK	I	CLOCK IN for Main microcomputer communication	
8	BYTE	I	GND	
9	T_PGM/OE	I	Pull down to CNVss, GND (For FLASH rewriting)	
10	M_CS2	O	CS output for Main microcomputer communication	
11	M_READY	O	READY output for Main microcomputer communication	
12	RESET	–	Reset (from Main microcomputer)	
13	XOUT	–	Oscillator	
14	VSS	–	GND	
15	XIN	–	Oscillator	
16	VCC	–	5V	
17	MN1	I	5V	
18	M_CS1	I	CS input for Main microcomputer communication	
19	Not used	O		
20	Not used	O		
21	Not used	O		
22	Not used	O		
23	Not used	O		
24	Not used	O		
25	Not used	O		
26	Not used	O		
27	Not used	O		
28	Not used	O		
29	Not used	O		
30	Not used	O		
31	TXD	O	For FLASH rewriting	
32	RXD	I	For FLASH rewriting	
33	T-SCLK	I	For FLASH rewriting	
34	T-BUSY	O	For FLASH rewriting	
35	CSDO	O	DATA OUT for Crystal DSP	
36	CDT	I	DATA IN for Crystal DSP	
37	CCK	O	CLK for Crystal DSP	
38	CRST	O	RESET for Crystal DSP	
39	CREQ	I	REQ for Crystal DSP	
40	ABOT	O	ABOOT for Crystal DSP	
41	VSS	–		
42	CCS	O	CS for Crystal DSP	
43	CA17	O	For Crystal DSP	
44	CA16	O	For Crystal DSP	
45	CA15	O	For Crystal DSP	
46	T-Vdd	I	5V	
47	Not used	O		
48	MUTE	O	For E-SW (TC9164)	
49	ADMD	O	For E-SW (TC9164)	
50	DT	O	For E-SW (TC9164)	

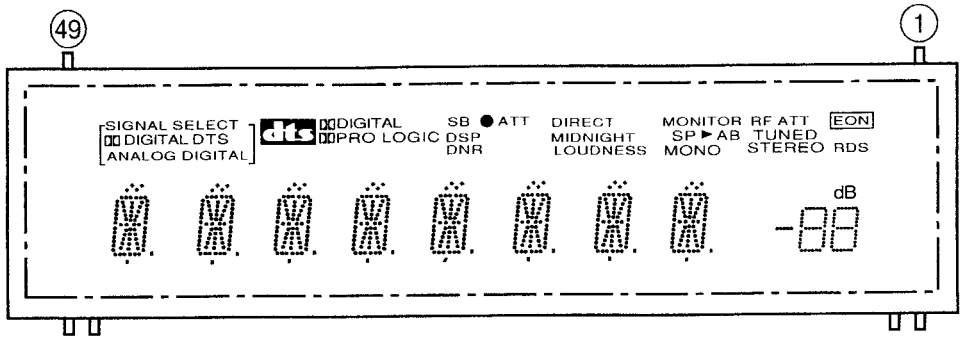
No.	Pin Name	I/O	Pin Function	Active
51	CK	O	For E-SW (TC9164)	
52	ST	O	For E-SW (TC9164)	
53	Not used	O		
54	SELA	O	For LOGIC IC, TC74ACT151F	
55	SELB	O	For LOGIC IC, TC74ACT151F	
56	SELC	O	For LOGIC IC, TC74ACT151F	
57	Not used	O		
58	Not used	O		
59	Not used	O		
60	Not used	O		
61	ATT	O	ATT output	
62	VCC	–	5V	
63	Not used	O		
64	VSS	–	GND	
65	Not used	O		
66	Not used	O		
67	DIR PD	O	Power down for DIR	
68	DIR SDTO	I	DIR DATA IN	
69	CDC_PD	O	Power down for CODEC	
70	FS96	I	96K	
71	Not used	O		
72	Not used	O		
73	Not used	O		
74	Not used	O		
75	ERR	I	DIR	
76	CDC_CS	O	CS for CODEC communication	
77	CDC_DT	O	DATA OUT for CODEC communication	
78	CDC_CK	O	Clock for CODEC communication	
79	Not used	O		
80	Not used	O		
81	Not used	O		
82	Not used	O		
83	Not used	O		
84	Not used	O		
85	2CHSW2	O	For TC9215 control (SW H : PASSIV, L : POWERED)	
86	2CHSW1	O	For TC9215 control (SB H : DSP, L : 6CH)	
87	Not used	O		
88	Not used	O		
89	ANOV	I	Analog input overload detection (A/D)	
90	Not used	O		
91	Not used	O		
92	Not used	O		
93	AIRT	O	AK7706DSP INIT reset (control it only in a power start)	
94	ARDY	I	AK7706 writing READY input	
95	ADRY	I	AK7706 output data READY input	
96	AVSS	–	GND	
97	ADRT	O	AK7706 DSP reset	
98	VREF	–	5V	
99	AVCC	–	5V	
100	ASI	I		

7.2.2 DISPLAY

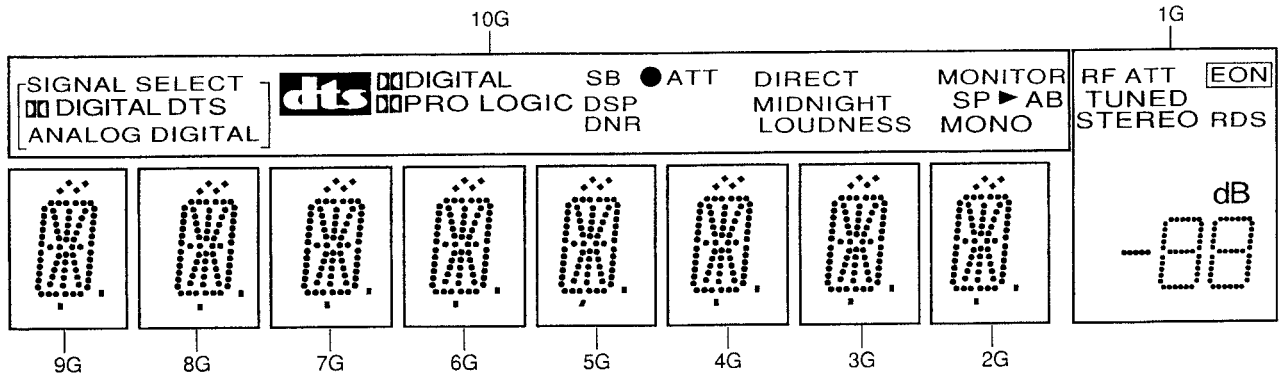
■ XAV3010 (FRONT ASSY : V401)

- **FL DISPLAY**

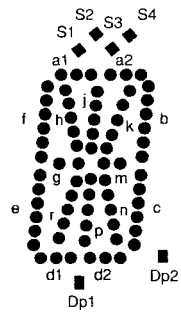
- **Pin Assignment**



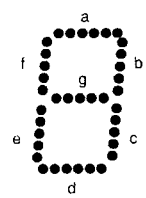
- **Grid Assignment**



- **Segment Designation**



(9G to 2G)



(1G)

• Pin Connection

Pin No.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Connection	F2	F2	NP	NP	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	P1	NX	NX	NX	NX	NX	NX	NX	NX	NX	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	

NOTE 1) F1, F2..... Filament
2) NP..... No pin
3) NX..... No extend pin
4) DL..... Datum Line
5) 1G to 10G..... Grid
6) Field of vision is a minimum of 29° from the lower side.

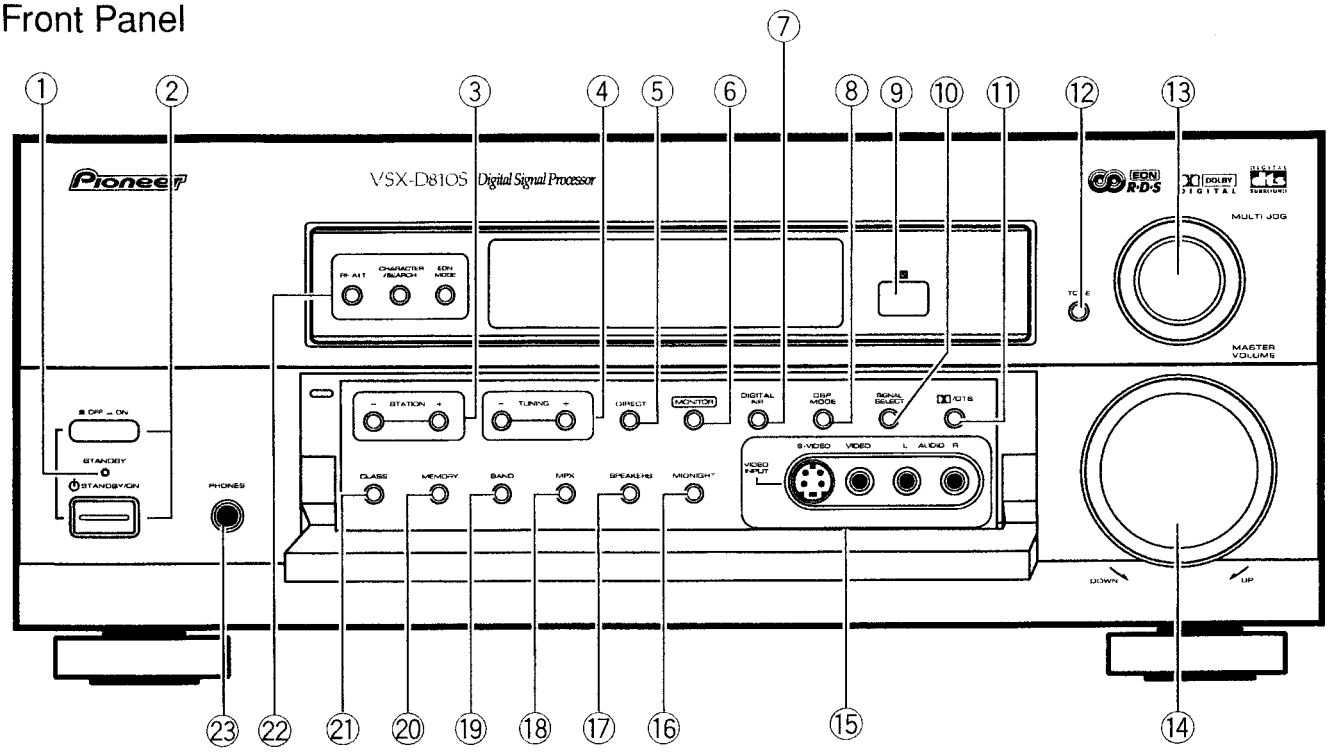
• Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	MONO	a1	a1	a1	a1	a1	a1	a1	a1	dB
P2	B	a2	a2	a2	a2	a2	a2	a2	a2	2a
P3	A	h	h	h	h	h	h	h	h	2b
P4	SP ►	j	j	j	j	j	j	j	j	2f
P5	MONITOR	k	k	k	k	k	k	k	k	2g
P6	LOUDNESS	b	b	b	b	b	b	b	b	2c
P7	MIDNIGHT	f	f	f	f	f	f	f	f	2e
P8	DIRECT	m	m	m	m	m	m	m	m	2d
P9	DNR	g	g	g	g	g	g	g	g	1a
P10	ATT	c	c	c	c	c	c	c	c	1b
P11	●	e	e	e	e	e	e	e	e	1f
P12	DSP	r	r	r	r	r	r	r	r	1g
P13	SB	p	p	p	p	p	p	p	p	1c
P14	PRO LOGIC	n	n	n	n	n	n	n	n	1e
P15	DIGITAL	d1	d1	d1	d1	d1	d1	d1	d1	1d
P16	dts	d2	d2	d2	d2	d2	d2	d2	d2	▪▪▪▪
P17	ANALOG	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	RDS
P18	DIGITAL	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	RF ATT
P19	[ ]	S1	S1	S1	S1	S1	S1	S1	S1	EON
P20	DTS	S4	S4	S4	S4	S4	S4	S4	S4	▭
P21	DIGITAL	S2	S2	S2	S2	S2	S2	S2	S2	TUNED
P22	SIGNAL SELECT	S3	S3	S3	S3	S3	S3	S3	S3	STEREO

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Front Panel



① **STANDBY indicator**
Lights when the receiver is in standby mode (note that the receiver consumes a small amount of power (1W) in standby mode).

② **■ OFF/ ▁ ON (Main power) button**
If the button is OFF (■), the power of the receiver is shut off and the ⏻ **STANDBY/ON** button on the receiver or the **RECEIVER** ⏻ button on the remote control do not function. Pressing the button again will turn the receiver ON (▁) and the receiver enters the standby mode. In the standby mode, you can turn on the receiver using ⏻ **STANDBY/ON** button on the receiver or the **RECEIVER** ⏻ button on the remote control.

⏻ STANDBY/ON button
Switches the receiver between on and standby (note that the receiver consumes a small amount of power (1W) in standby mode).

③ **STATION (+/–) buttons**
Selects station memories when using the tuner.

④ **TUNING (+/–) buttons**
Selects the frequency when using the tuner.

⑤ **DIRECT button**
Use to switch DIRECT playback on or off. This mode bypasses the tone controls, channel levels, DD/DTS and DSP modes for the most accurate reproduction of a program source.

⑥ **MONITOR button**
Press to switch tape monitoring on/off.

⑦ **DIGITAL NR button**
Switches the DIGITAL NR on or off. To reduce extraneous noise switch on DIGITAL NR.

⑧ **DSP MODE button**
Use to switch between the various DSP modes available **(HALL1, HALL 2, JAZZ, DANCE, THEATER1, THEATER 2, 5/6CH STEREO)** and **DSP off**. Use this button to create different surround sound effects from any stereo source.

⑨ **Remote sensor**
Receives the signals from the remote control.

⑩ **SIGNAL SELECT button**
Use to select an analog or digital or AUTO signal.

⑪ **DD/DTS button**
Use to switch between the various DD/DTS surround modes.

⑫ **TONE button**
This button allows you to activate the BASS & TREBLE controls. To adjust the BASS and/or TREBLE use the MULTI JOG dial. Tone can only be used in 2 channel stereo sound mode. The tone controls have no effect on the B speaker system.

⑬ **MULTI JOG dial**
You can use this dial for two purposes. Firstly, in normal mode turn it to select a source component. Secondly, use it to adjust the BASS and/or TREBLE levels when the TONE button has been activated (as explained above).

⑭ **MASTER VOLUME**
Use to set the overall listening volume.

⑮ **VIDEO INPUT jacks**
Connect a video camera, video game system, etc. to the **VIDEO INPUT** jacks.

⑯ **MIDNIGHT button**
Use when listening to movie soundtracks at low volume. This feature will enable you to hear quiet sounds and not get jolted by loud or sudden sound effects.

⑰ **SPEAKERS button**
Use to switch the speaker system **A** → **B** → **A+B** → **off**. In **B** and **A+B** speaker modes you hear only 2 channel stereo sound.

⑱ **MPX button**
If there is interference or noise during a FM radio broadcast, or the radio reception is weak, press the **MPX** button to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

⑲ **BAND button**
Press to select the AM or FM band.

⑳ **MEMORY button**
Press to memorize a station for recall using the **STATION (+/–)** buttons.

㉑ **CLASS button**
Switches between the three banks (classes) of station memories.

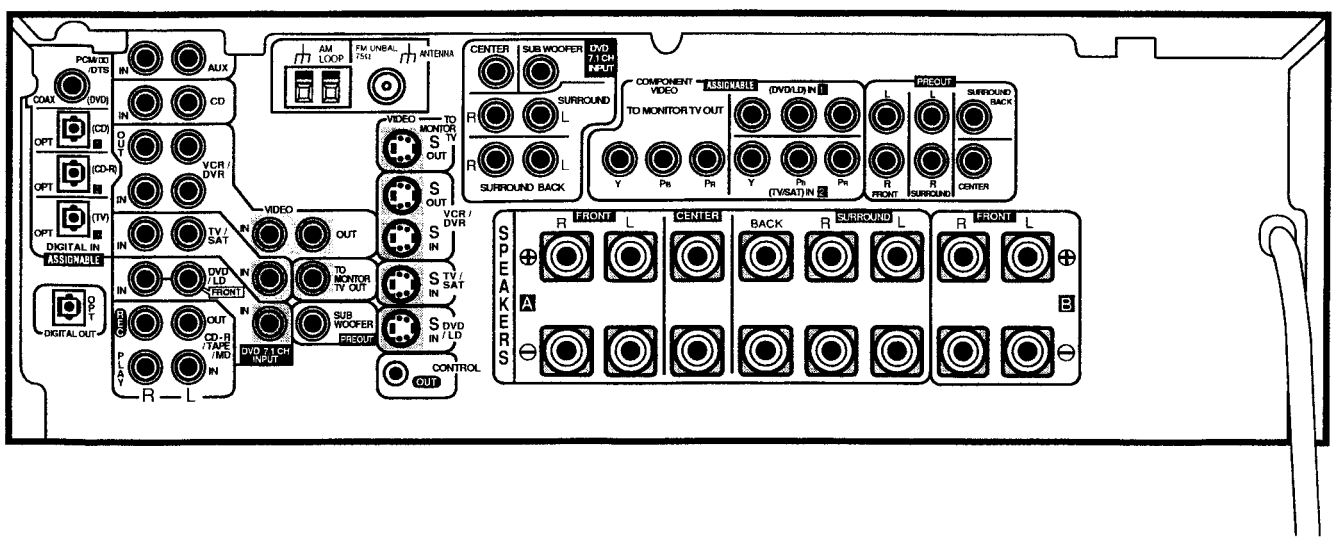
㉒ **RF ATT button**
Use to lower the input level of a radio signal that is too powerful or contains interference thus causing the receiver to distort

CHARACTER/SEARCH button
Use to search for different program types in RDS mode. It is also used to input station names.

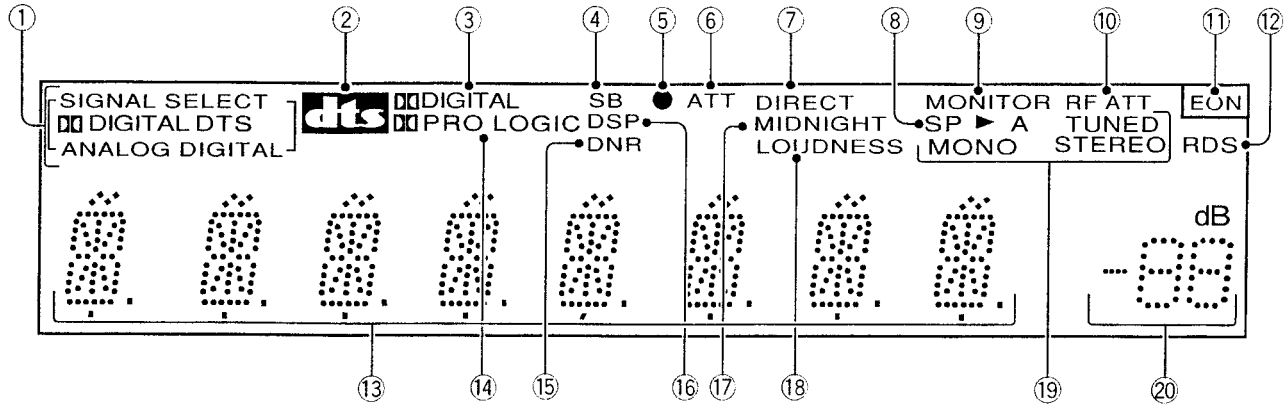
EON MODE button
Use to search for different programs that are transmitting traffic or news information (this search method is called EON).

㉓ **PHONES jack**
Use to connect headphones but this does not switch the speakers off.

Rear Panel



Display



① **SIGNAL SELECT indicators**
Light to indicate the type of input signal assigned for the current component (see "Front Panel", ⑩ SIGNAL SELECT). When the AUTO setting is being used on the VSX-D810S receiver a set of brackets will appear around the SIGNAL SELECT indicators.
DIGITAL : Lights when a Dolby Digital signal is played.
DTS: Lights when a source with DTS audio signals is played.
ANALOG : Lights when an analog signal is selected.
DIGITAL : Lights when a digital audio signal is selected.
[ ]: Lights when the AUTO setting is selected.

② **DTS indicator**
Lights when DTS mode is being used.

③ **DIGITAL indicator**
When the (DOLBY)/DTS mode of the receiver is on, this lights to indicate playback of a Dolby Digital signal. However, **PRO LOGIC** lights during two channel playback of Dolby Digital.

④ **Surround Back indicator**
Lights when most Surround Back channel flag encoded (6.1channel) software is playing. (With some Surround Back channel software the surround back indicator won't light because there is no flag encoded in the software.) If you play DTS 5.1/6.1 channel software surround sound will be heard whether it is encoded with a surround back channel flag or not.

⑤ **OVERLOAD indicator**
This lights when an analog signal is too high (the **SIGNAL SELECT** would have to be on ANALOG). It indicates the sound is distorting and the input signal should be reduced.

⑥ **ATT indicator**
Lights when ATT is used to attenuate (reduce) the level of the input signal (can only be used in ANALOG mode).

⑦ **DIRECT indicator**
Lights when source DIRECT is in use. This function bypasses all tone, balance, DSP and Dolby Surround effects.

⑧ **SPEAKER indicator**
Shows if the speaker system is on or not. SP ►A means that speakers are switched on. SP ► means that speakers are switched off.

⑨ **MONITOR indicator**
Lights when **MONITOR** is selected. Used to hear a recording as it's being made.

⑩ **RF ATT indicator**
Lights when the **RF ATT** is on.

⑪ **EON indicator**
The box around **EON** indicator lights to inform you that the currently tuned station carries the EON data service. When the EON mode is set, the **EON** indicator light's, but during actual reception of an EON broadcast the **EON** indicator will flash. An empty box in the **EON** indicator spot means it is possible to pick up an EON broadcast but the receiver has not been set to do so (this will only appear when RDS is switched on).

⑫ **RDS indicator**
Lights when an RDS broadcast is received.

⑬ **CHARACTER display**
Shows the radio frequency or function (DVD/LD, CD, etc.) receiver is using .

⑭ **PRO LOGIC indicator**
When the /DTS mode of the receiver is on, this lights to indicate playback of a two channel source.

⑮ **DNR indicator**
Lights when the digital noise reduction is on. Use to reduce extraneous noise. It can be used with any sound mode.

⑯ **DSP indicator**
Lights when any "Advanced Theater" or "DSP" mode is selected.

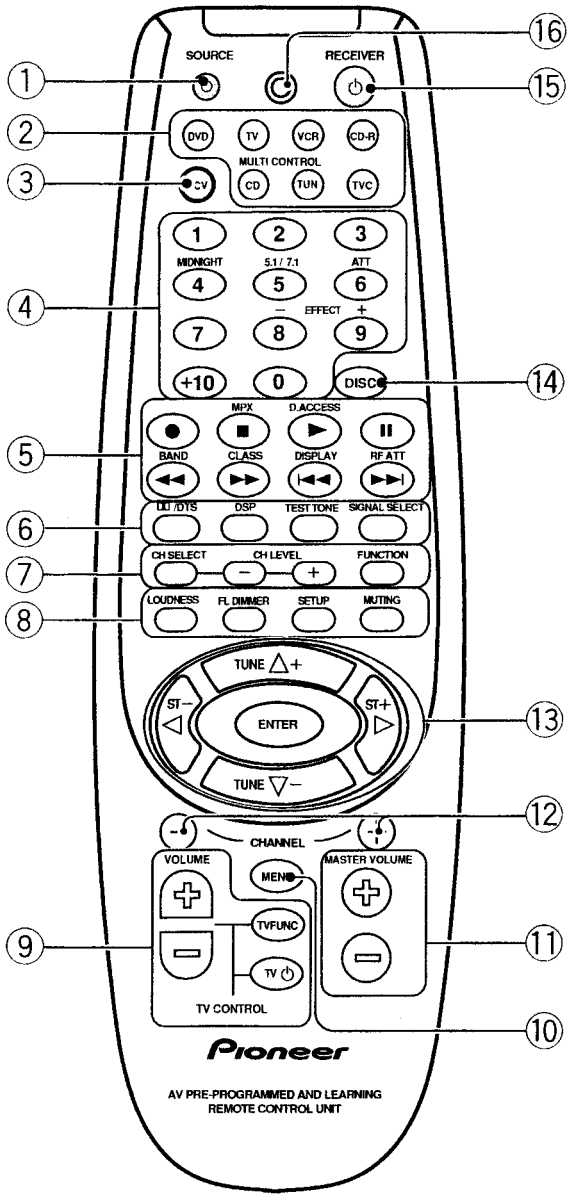
⑰ **MIDNIGHT indicator**
Lights when MIDNIGHT listening mode is in use.

⑱ **LOUDNESS indicator**
Lights when the LOUDNESS is on. Use to boost the bass and treble at low volume.

⑲ **TUNER indicators**
MONO:
Lights when the mono mode is set using the **MPX** button.
TUNED:
Lights when a broadcast is being received.
STEREO:
Lights when a stereo FM broadcast is being received in auto stereo mode.

⑳ **MASTER VOLUME LEVEL**
Shows the overall volume level. Volume level is maintained even when the power is off. **---dB** indicates the minimum level, and **0dB** indicates the maximum level.

Remote Control



① **SOURCE ⏻ button**
Use to turn on/off other components connected to the receiver.

② **MULTI CONTROL buttons**
Use to put the receiver/remote control in the stated mode.
For other equipment controls, see "Controlling the Rest of Your System".

③ **RCV button**
Use this button when setting up the surround sound for the receiver. Also press it if you want to use special features attached to some of the number buttons, for example MIDNIGHT, 5.1/7.1, EFFECT +/– or ATT.

④ **NUMBER/MODE buttons**
Use the number buttons to select the radio frequency in tuner DIRECT ACCESS mode or the tracks in CD, DVD mode etc.
Also, buttons marked with the following names have special functions. If you try to use one of these functions but the display flashes it means that function cannot be used in the current mode (for example DSP modes cannot be used when 5.1 Ch (VSX-D710S)/ 7.1 Ch (VSX-D810S) setting is on).

MIDNIGHT button
Use to put receiver in **MIDNIGHT** mode. To use first press the **RCV** button then operate this button.

5.1/7.1 button
(VSX-D810S is 7.1 Ch)
When the DVD/LD or DVD 5.1/7.1 Ch function is selected each press switches the DVD/LD input between DVD/LD and DVD 5.1/7.1 Ch. To use first press the **RCV** button then operate this button.

ATT button
When the overload indicator lights use this button to attenuate (lower) the level of an analog input signal and prevent distortion. To use first press the **RCV** button then operate this button.

EFFECT +/– buttons
Use to add or subtract the amount of effect in different DSP sound modes (except 6 Ch Stereo) or advanced listening modes.
To use first press the **RCV** button then operate these buttons.

⑤ **THE FOLLOWING BUTTONS ARE BOTH CONTROLS FOR OTHER COMPONENTS (LIKE A DVD PLAYER) AND DEDICATED TUNER CONTROLS. THE TUNER CONTROLS ARE EXPLAINED HERE. YOU CAN USE THEM AFTER YOU HAVE PUSHED THE TUNER MULTI CONTROL BUTTON.**

BAND button
Use to switch between the AM and FM band when in TUNER mode.

CLASS button
Use to switch between the three banks (classes) of station memories.

MPX button
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to MONO will improve the sound quality.

D. ACCESS button
Use to directly access a radio station by pressing the number of the station you want.

DISPLAY button
Use to display the RDS information.

RF ATT button
Use to lower the input level of a radio signal that is too powerful or contain interference thus causing the receiver to distort.

⑥ **DD /DTS button**
Use to put the receiver in DOLBY DIGITAL, DOLBY SURROUND and DTS modes. To use first press the **RCV** button then operate this button.
DSP button
Use to put receiver in one of the DSP modes. To use first press the **RCV** button then operate this button.
TEST TONE button
Use to sound the TEST TONE when setting up the surround sound of the receiver (the DD /DTS mode must be on). To use first press the **RCV** button then operate this button.
SIGNAL SELECT
Use to select the proper signal (analog, digital) for the source your are inputting. On the VSX-D810S receivers there is an AUTO setting. In this setting the receiver will automatically switch between the analog and digital signals according to what is being input. If both signals are input the AUTO setting will choose the digital one. This setting is convenient as the receiver will always choose the best or appropriate signal. To use first press the **RCV** button then operate this button.

⑦ **CH SELECT button**
Use to select a speaker when setting up the surround sound of the receiver.
CH LEVEL +/–
Use to set up the levels of the surround sound of the receiver.
FUNCTION button
Use to select the playback or recording source. This button lets you cycle through the different functions of the receiver in the following order: CD, TUNER, AUX, CDR/TAPE, VCR/DVR, DVD/LD, DVD 7.1 ch, VIDEO, and TV/SAT.

⑧ **LOUDNESS button**
Use to switch on the loudness. This feature is useful for getting good bass and treble sounds listening at low volumes.
FL DIMMER button
Use this button to make the fluorescent display (FL) dimmer or brighter. There are three brightness settings as well as an off setting.
SETUP button
Use this button when setting up the remote control to control other components.
MUTING button
Use to mute the sound or restore the sound if it has been muted.

⑨ **THE FOLLOWING BUTTONS ARE DEDICATED TV CONTROL BUTTONS. THEY ARE ONLY USED FOR CONTROLLING YOUR TV.**
TV FUNC button
Use to select the TV function.
TV ⏻ button
Use to turn on/off the power of the TV.
TV VOLUME +/– buttons
Use to adjust the volume on your TV.

⑩ **MENU button**
Use to access different menus associated with your DVD player. To use first press the **DVD** button then operate this button.

⑪ **MASTER VOLUME +/– buttons**
Use to set the overall listening volume.

⑫ **CHANNEL +/– buttons**
Use to skip tracks backward or forward on CDs, DVDs, etc and change channels on the VCR, DVR, etc.

⑬ ◁ ▷ △ ▽ **(TUNE/ST +/–) & ENTER buttons**
Use these arrow buttons when setting up your surround sound system. These buttons are also used to control DVD menus/options and for deck 1 of a double cassette deck player. The TUNE/ST +/– buttons can be used to find radio frequencies and preset stations, respectively .

⑭ **DISC button**
Use to select a disc and a multi-CD player. To use first press the **CD** button then operate this button.

⑮ **RECEIVER ⏻ (POWER) button**
This switches between STANDBY mode and power ON for this receiver.

⑯ **LED DISPLAY**
This display flashes when a command is sent from the remote control to the receiver. It also flashes at other times, for example when teaching the receiver preset codes, with specific meanings.

8.2 SPECIFICATIONS

Amplifier Section

Continuous Power Output (STEREO MODE)
FRONT ..... 100 W + 100 W (DIN 1 kHz, THD 1 %, 8 Ω)

Continuous Power Output (SURROUND MODE)
FRONT ..... 100 W/ch (1 kHz, THD 1 %, 8 Ω)
CENTER ..... 100 W (1 kHz, THD 1 %, 8 Ω)
SURROUND ..... 100 W/ch (1 kHz, THD 1 %, 8 Ω)
SURROUND BACK ..... 100 W/ch (1 kHz, THD 1 %, 8 Ω)

- Above specifications are applicable when the power supply is 230V.

Input (Sensitivity/Impedance)
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 200 mV/47 kΩ
Frequency Response
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 5 Hz to 100,000 Hz +0 -3 dB
Output (Level/Impedance)
VCR/DVR OUT, CD-R/TAPE/MD REC ..... 200 mV/2.2 kΩ
Tone Control
BASS ..... ± 6 dB (100 Hz)
TREBLE ..... ± 6 dB (10 kHz)
LOUDNESS ..... +9 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio
[DIN (Continuous rated power output/50 mW)]
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 88 dB/64 dB

VIDEO Section

Input (Sensitivity/Impedance)
VCR/DVR, DVD/LD, TV/SAT ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR/DVR, TO MONITOR TV OUT ..... 1 Vp-p/75 Ω
Frequency Response
VCR/DVR, DVD/LD, TV/SAT → MONITOR ..... 5 Hz to 7 MHz +0 -3 dB
Signal-to-Noise Ratio ..... 55 dB

COMPONENT VIDEO Section

Input (Sensitivity/Impedance)
DVD/LD, TV/SAT ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
TO MONITOR TV OUT ..... 1 Vp-p/75 Ω

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FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono:13.2 dBf, IHF (1.3 µV/ 75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN) ..... Mono: 62 dB
Stereo: 58 dB
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1dB)
Antenna Input (DIN) ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 30 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
UK model ..... AC 230 V, 50/60 Hz
European model ..... AC 220 – 230 V, 50/60 Hz
Power Consumption
VSX-D810S ..... 280 W
In Standby ..... 1 W
Dimensions ..... 420 (W) x 158 (H) x 401 (D) mm
Weight (without package)
VSX-D810S ..... 10.5 kg

Furnished Parts

AM loop antenna 1
FM wire antenna 1
Dry cell batteries (AA size IEC R6P) 2
Remote control 1
Operating instructions 1

NOTE:

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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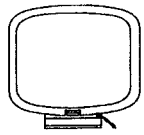
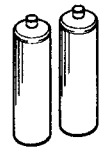
■ Accessories

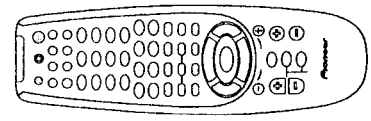


AM loop antenna
(ATB7009)

FM wire antenna
(ADH7005)



AA size IEC R6P
Dry cell batteries (x2)



Remote control unit
(XXD3029)